

78 01164



County Employment Projections

for the San Francisco
Bay Region 1970-2000

BAY AREA REGIONAL PLANNING PROGRAM

Labor supply -- stat -- CA -- SF Bay area
Employ. forecasting "

INSTITUTE OF GOVERNMENTAL
STUDIES

FEB 16 1978

UNIVERSITY OF CALIFORNIA

January 1973

JOINT LAND USE TRANSPORTATION PLANNING PROGRAM

TO: Planning Director
FROM: Paul Bay, Deputy Director, Metropolitan Transportation Commission
Rudolph R. Platzek, Regional Planning Director, Association of Bay
Area Governments
RE: County Employment Projections for the San Francisco Bay Region, 1970:2000
DATE: February 16, 1973

We have enclosed a copy of County Employment Projections for the San Francisco Bay Region, 1970:2000. We are sending these projections to local planning agencies throughout the Bay Area for review and comment. In order to make improved updates of our projections, we plan to make periodic review of our procedures and assumptions. Your comments should help us to improve our projection procedures by providing your specialized knowledge of local conditions.

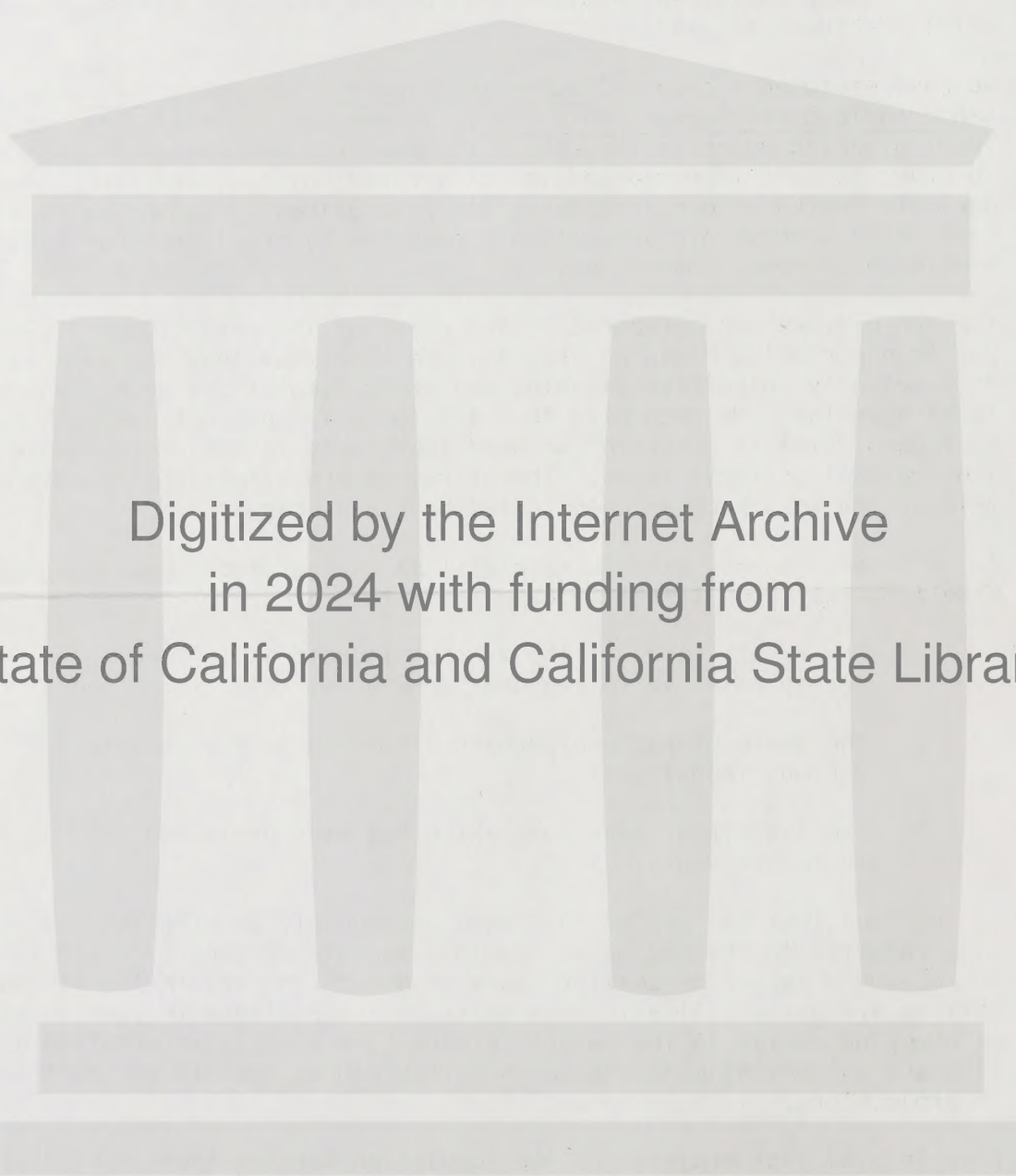
The projections were prepared by the staff of the ABAG/MTC/DOH Joint Land Use Transportation Planning Program. We hope that they can be used as part of a mutually supportive planning and projection effort by regional and local agencies. We recognize that all too often projections such as these have been "cast in concrete" or used improperly in a planning sense at either the regional or local level. Therefore, we are attempting to keep our methods and work program open to feedback and change.

Any comments you may wish to make will be appreciated. However, we would like to direct your attention especially to:

- 1) The growth rates of the various industries in your county relative to regional growth rates for those industries.
- 2) The share of regional growth allocated to your county for various industries.
- 3) The industrial structure which has been projected for your county in future years.

If you feel that the projections show your county growing too fast or too slow relative to the region in specific industries, that you are likely to receive a larger or smaller share of growth in certain industries, or that we are unrealistically forecasting the importance in your local economy of some industries in the future, please give us this information along with any supporting comments so that they can be used in our next round of projections.

Keep in mind that projections for population serving industries will be revised by the results of further modeling which allocates population and housing, so the projections for these industries are merely interim estimates.



Digitized by the Internet Archive
in 2024 with funding from
State of California and California State Library

<https://archive.org/details/C124901588>

In addition, we would appreciate your comments on:

- 1) The comparison of these projections with other projections prepared locally,
- 2) The comparison of these projections with current development policies, growth assumptions or other factors which we may have overlooked,
- 3) The potential usefulness of this document for your local planning and ways to improve it.

Our work program calls for another round of projections in the near future. Thus in order for your review to be incorporated in this next round, it must be received by us by March 31, 1973.

Please mail any comments to:

Dennis Wambem
Association of Bay Area Governments
Hotel Claremont
Berkeley, California 94705

If you have further questions concerning the forecasts, do not hesitate to telephone any of these people:

Wes Wells or Gale Bach at MTC, (415) 849-3223

John Holtzclaw or Dennis Wambem at ABAG, (415) 841-9730

THE JOINT ABAG/MTC PROJECTION PROGRAM

As a first step in the operation of a continuing program of preparing employment, population and land use projections for the San Francisco Bay Region, the Joint ABAG/MTC Program staff has produced a set of three regional growth forecasts for the years 1980, 1990 and 2000. Two of the forecasts represent different interpretations of how by the year 2000 7.5 million people might be distributed within the Region: first, with employment opportunities having a "South Bay" emphasis and second, with the emphasis being shifted to the "North Bay." The third forecast represents a distribution of a lower regional total of 6.7 million people.

These forecasts were developed in a "successive approximation" process which produced the following specific outputs:

1. Employment projections by industry and county for the Bay Region.
2. Population, employment and land use projections by 50 hydrographic sub-units within the Region as specified by the State Department of Water Resources.
3. Population, employment, housing, and land use projections by subcounty areas for the Bay Region.

At this point in time, the projections reflect the broad framework provided by the Regional Plan 1970:1990 as approved in 1970. They do not reflect any other regional or local development policies or changing attitudes and environmental constraints. The implications of these physical and socio-economic changes, when incorporated into the projection process, may result in different levels and configurations. Therefore, these provisional projections represent the Joint Team's current efforts to evaluate conditions and project growth at this time.

While the Joint Program encourages analysts and planners throughout the Region to evaluate and react to these projections, it is important to emphasize that they are provisional. Their release is intended to stimulate dialogue on the methodology, assumptions and analysis underlying them. In their current form, however, the associated data are incomplete for use in planning studies and programs in the Region. They represent raw model output which has not been subjected to rigorous planning evaluation.

The continuing ABAG/MTC program intends to build upon this base by incorporating feedback from outside review with reactions stemming from in-house evaluation, and by employing improved predictive techniques. Additionally, the Joint Program staff will assess changes in attitudes regarding growth, planning policies and assumptions, a wide variety of social issues and environmental constraints, and the anticipated effects of economic development which cannot always be foreseen and evaluated in advance.

780 1164

COUNTY EMPLOYMENT PROJECTIONS
For the San Francisco Bay Region
1970:2000

Prepared by the:

JOINT LAND USE TRANSPORTATION PLANNING PROGRAM

Association of Bay Area Governments

Metropolitan Transportation Commission

California Division of Highways

Berkeley, California
January, 1973

The preparation of this report was financed in part through Federal funds made available by the U.S. Department of Transportation, Urban Mass Transportation Administration; and in part by an Urban Planning Assistance Grant from the U.S. Department of Housing and Urban Development, under the provisions of Section 701 of the Housing Act of 1954, as amended.

TABLE OF CONTENTS

CHAPTER I: INTRODUCTION.	1
1.1 Purpose of Projections	1
1.2 Method	3
1.2.1 Industrial Categories.	6
1.3 Organization of the Report	9
1.3.1 A Note on Tabular and Graphical Data	11
CHAPTER II: REGIONAL SUMMARY	14
2.1 Trends in Industry Groups.	14
2.2 Employment Location Trends	15
2.2.1 Institutional Services	16
2.2.2 New Technology	17
2.2.3 Metal Fabrication and Machinery.	18
2.2.4 Federal and State Government	19
2.2.5 Wholesale Trade.	19
2.2.6 Centralized Urban Manufacturing.	20
2.2.7 Long Distance Transportation	21
2.2.8 National Finance and Insurance	22
2.2.9 Petrochemicals and Primary Metals.	23
2.2.10 Mining	23
2.2.11 Decentralized Urban Manufacturing	24
2.2.12 Agriculture, Forestry and Fisheries.	24
2.2.13 Population Serving Industries.	25
CHAPTER III: COUNTY SUMMARIES.	41
3.1 Alameda County	41
3.2 Contra Costa County.	47
3.3 Marin County	52
3.4 Napa County.	57
3.5 San Francisco.	62
3.6 San Mateo County	68
3.7 Santa Clara County	74
3.8 Solano County.	80
3.9 Sonoma County.	86
APPENDIX A-1: INDUSTRY TRENDS.	A-1
APPENDIX A-2: TECHNICAL ASSUMPTIONS ON COUNTY EMPLOYMENT PROJECTIONS.	A-55
A.2.1 Explanation of the Projection Process.	A-55
A.2.2 Example of the Shift Method.	A-76

CHAPTER 1

INTRODUCTION

1.1 Purpose of Projections

What are the Projections?

This document presents the first set of county employment projections prepared by the ABAG/MTC/DOH Joint Land Use Transportation Planning Program. Regional and county level projections of employment are presented for each of the nine Bay Area Counties and for each of 18 industrial categories at five-year intervals from 1970 to 2000. There are several forms of presentation in order to aid in their evaluation and use.

These projections represent an effort to indicate the probable distribution and level of employment in the future. It is assumed that no significant changes in policies toward economic growth, or overall conditions and constraints as they affect economic growth, will occur. Therefore, these projections do not represent a proposed economic development policy of ABAG, MTC, DOH or any other governmental agency.

These projections are a first round in an ongoing process. It becomes necessary to make this clear to avoid over reliance on these numbers, and the accompanying danger of the projections becoming a self-fulfilling prophecy. Rather, these projections should be viewed as our best effort to assess conditions at this time. To further emphasize this point, in forthcoming projections, refinements will deal with the following: feedback from the cities and counties; changing public attitudes toward family size; impact of the possible imposition of environmental quality standards;

a changing transportation system; changing trade patterns, particularly with respect to increasing east-west trade; significantly different patterns of migration to the Bay Area.

New versions of these projections will be forthcoming as the significance of the above changing conditions becomes clearer, and as others in the Region make their views a part of this process.

The ABAG/MTC/DOH Joint Land Use Transportation Planning Program

The ABAG/MTC/DOH Joint Land Use Transportation Planning Program which prepared these projections is a cooperative effort of the Association of Bay Area Governments, The Metropolitan Transportation Commission and the California Division of Highways, formed to bring about continued coordination of transportation planning and comprehensive planning at the Regional level.

Expected Uses of the Projections

The projections were prepared as part of a larger effort to forecast the location and quantity of employment, housing, population and land use at the level of 290 zones in the Bay Area. In fact, the projections of employment for the twelve industrial categories, which we call Basic Industries, form the first link in this allocation process.

The results of these projections and their allocation to the 290 local zones in the Bay Area are to be used initially for water and sewer planning by the California Department of Water Resources, for the projections

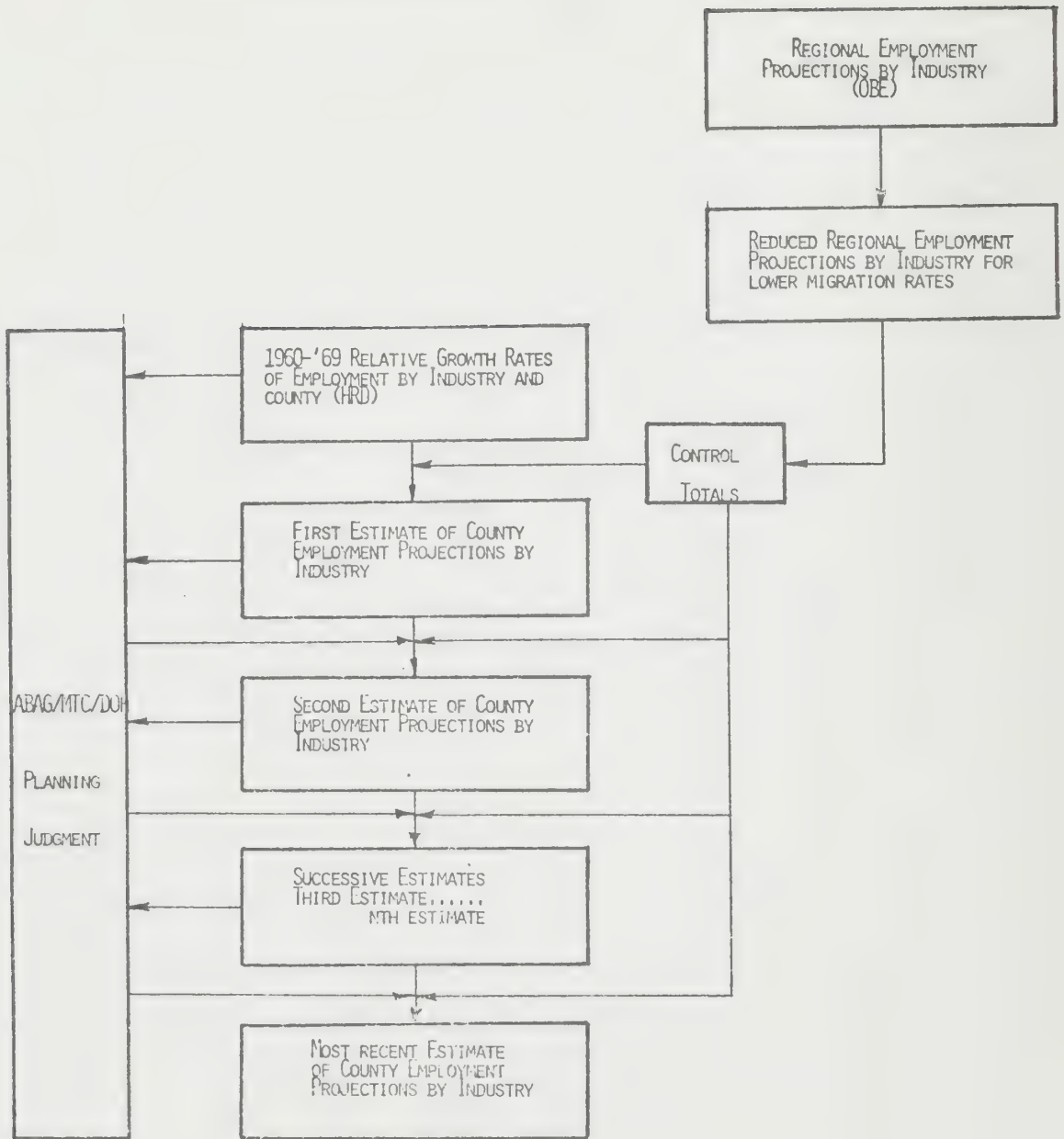
of travel demands and transportation impacts on development by the Metropolitan Transportation Commission as it prepares its Regional Transportation Plan; and for the same purposes by the Regional Transit Travel Projections Program which is administered by BART, but will contribute to various transportation study projects including BART extension studies. However, it is expected that these projections or improved second and third generation versions of these projections will be used for planning studies by a wide variety of public agencies and private groups, including ABAG as it prepares a wide range of studies in its work program, other special purpose Regional planning agencies such as Bay Area Sewer Services Agency and Bay Area Air Pollution Control District; other state agencies such as the California Division of Highways, local planning agencies and special districts, a wide range of consultants including those performing services for transportation planning projects, and finally by real estate developers and other private interests.

In evaluating these projections, users should be guided by two things. First, are these projections correct from the user's perspective and knowledge? If not, why not? Second, are these projections significantly different from users' projections to the extent where these differences would modify existing plans and policies.

1.2 Method

The forecasting method used is quite simple. Figure 1.1 shows the flow of the process in diagrammatic form. Essentially, we are using a step-down method from National employment projections to Regional employment projections to County level projections. The step-down is achieved

FIGURE 1.1
COUNTY EMPLOYMENT PROJECTION PROCESS



through a shift technique in which the allocation of Regional employment is determined by the growth rate of each county relative to the Regional growth rate for each industrial category. These relative growth rates are determined by a series of modifications to the relative growth rates derived from historical data on employment in the Bay Area in the sixties. The basis of these modifications has been the collective judgment of the staff of the ABAG/MTC/DOH Joint Land Use Planning Program. These modifications were made until a staff consensus indicating an acceptable set of projections was reached.

The National level projection as well as the step-down to the Regional level has been taken, with slight modification to achieve consistency with the Department of Finance population projections, from work done by the U.S. Office of Business Economics (OBE).

The historical trends in employment for industrial categories in the Bay Area's counties, which were used to obtain the relative growth rates used as the starting point in our allocation process were obtained from data gathered by the Department of Human Resources Development and massaged by the staff of the ABAG/MTC/DOH Joint Land Use Transportation Planning Program.

The application of the relative growth rates assumes that employment in a given industrial category in each county will grow according to a compound interest formula. These relative growth rates can then be used as indicators of the relative attractiveness of the counties for each industrial category per unit of base year employment.

The modification of these relative growth rates was achieved by:

- 1) choosing some a priori limits of county growth rates for specific industries;
- 2) reviewing each estimate of the projections in terms of projected values and relative shares of employment; and
- 3) selecting new relative growth rates which would result in more acceptable results.

In order to compare the relative growth rates found in the sixties to those used in the final projections, see the last two columns of the industry specific target year tables in Appendix A-1. This process relied on the knowledge and experience of the ABAG/MTC/DOH Joint Land Use Transportation Planning Staff, which can now be augmented by the more specialized knowledge of local conditions in the Region and specific industries.

This process is described in greater detail in Appendix A-2. In addition, a technical report on these forecasts is being prepared.

1.2.1. Industrial Categories. The employment projections for each county are based on aggregates of two digit Standard Industrial Classification (SIC) categories which have been tabulated according to 12 categories of basic employment and 6 categories of population-serving employment, as illustrated in the Table 1.1. These categories are necessary to facilitate data inputs into the ABAG/MTC/DOH allocation models and to substantiate the theory behind the models. They reflect an apparent similarity to the traditional economic base concept of basic and non-basic employment categories; however, there are specific differences between the two sets of categories.

TABLE 1.1
TWO-DIGIT SIC MAJOR INDUSTRY GROUPS CLASSIFIED BY
"BASIC" AND "POPULATION-SERVING" CATEGORIES

LABEL FOR COMPUTER RUNS	SIC	DESCRIPTION	LABEL FOR COMPUTER RUNS	SIC	DESCRIPTION
AG, FR, FSH		Basic Industry Group 1 - Agriculture, Forestry and Fishing	CONSTR		Population-Serving Industry 1 - Construction
	01	Agricultural production		15	General building contractors
	07	Agricultural services		16	Heavy construction contractors
	08	Forestry		17	Special trade contractors
	09	Fishing			
MINING		Basic Industry Group 2 - Mining	L TR, CM, U		Population-Serving Industry 2 - Transportation, Communication and Utilities
	10	Metal mining		41	Local and interurban passenger transit
	13	Oil and gas extraction		47	Transportation services
	14	Nonmetallic minerals		48	Communication
NEW TECH		Basic Industry Group 3 - New Technology Manufacturing		49	Electric, gas, and sanitary services
	19	Ordnance and accessories			
	36	Electrical equipment and supplies	RETAIL TR		Population-Serving Industry 3 - Retail Trade
	38	Instruments and related products		53	Retail general merchandise
CENTR URB		Basic Industry Group 4 - Centralized Urban Manufacturing		54	Food stores
	22	Textile mill products		55	Automotive dealers and service stations
	23	Apparel and other textile products		56	Apparel and accessor stores
	27	Printing and publishing		57	Furniture and home furnishing stores
	30	Rubber and plastic products, NEC		58	Eating and drinking places
	31	Leather and leather goods		59	Miscellaneous retail stores
DECENTR		Basic Industry Group 5 - Decentralized Manufacturing	LOC FIRE		Population-Serving Industry 4 - Finance, Insurance, and Real Estate
	20	Food and kindred products		60	Banking
	24	Lumber and wood products		61	Credit agencies other than banks
	25	Furniture and fixtures		64	Insurance agents, brokers and service
	26	Paper and allied products		65	Real Estate
	32	Clay, sand, and glass products		66	Combined real estate, insurance, etc.
	39	Miscellaneous Manufacturing			
MET, MACH		Basic Industry Group 6 - Metal Fabrication and Machinery	LOC SERV		Population-Serving Industry 5 - Services
	34	Fabricated metal products		70	Hotels and other lodging places
	35	Machinery, except electrical		72	Personal services
	37	Transportation equipment		75	Auto repair services and garages
PETRO, MET		Basic Industry Group 7 - Petrochemicals and Primary Metals		76	Miscellaneous repair services
	28	Chemicals and allied products		78	Motion pictures
	29	Petroleum and coal products		79	Amusement and recreation services, NEC
	33	Primary metal products		80	Medical and other health services
L D TRANS		Basic Industry Group 8 - Long Distance Transportation		81	Legal services
	40	Railroad transportation		86	Nonprofit membership organizations
	42	Trucking and warehousing		88	Private households
	44	Water transportation			
	45	Transportation by air	LOC GOV		Population-Serving Industry 6 - Local government
	46	Pipe line transportation		93	
WHOL TRAD		Basic Industry Group 9 - Trade			
	50	Wholesale trade			
	52	Building materials and farm equipment			
NT FIN, IN		Basic Industry Group 10 - National Finance and Insurance			
	62	Security, commodity brokers and services			
	63	Insurance carriers			
	67	Holding and other investment companies			
INST SERV		Basic Industry Group 11 - Services			
	73	Miscellaneous business services			
	82	Educational services			
	84	Museums, botanical, zoological gardens			
	89	Miscellaneous services			
	92(part)	State Colleges and Universities			
F,S GOV		Basic Industry Group 12 - Federal and State Government			
	91	Federal government			
	92(part)	State government (non- educational)			

The basic sector, as defined in the ABAG/MTC/DOH analytic process, includes those industries which produce goods and services mainly for export out of the Region or for intermediate use by other firms within the Region. It is composed, then, of those economic activities which depend primarily on inter-regional transportation facilities, unique site characteristics, inter-industry linkages, and natural resources advantages of a Region. The decisions regarding the location of these industries are influenced by these characteristics and are assumed to have a high priority in the sequence of development and in the competition for urban land.

Basic activities, then, influence the location of households which include the Region's labor force and dependent population, dwelling units, and residential land. For this reason these projections have concentrated on the allocation of basic employment. The population-serving sectors, characterized for the most part by retail trade, personal and business services and local government, is comprised of those sectors of the economy which are dependent upon the location of the night-time residential population from which most of the demand for consumer goods and services originates and the day-time location of workers who also generate some demand for these goods and services.

To summarize, in the ABAG/MTC/DOH analytic process, basic and population-serving employment refer to the locational characteristics of industries. Since basic employment is the driving force in our locational modeling process, these projections have concentrated on basic employment. We expect future refinements to the population-serving projections to come from the use of other models.

Traditional economic base theory is more directly concerned with the dynamics of regional growth. It divides a Region's total economic activity into two segments. One segment designates certain industries within the economic structure as export or basic industries, serving markets outside the Region, and consequently generating income for the Region from sources located beyond its boundaries. The other segment, referred to as non-exporting or non-basic, is comprised of industries whose goods and services are sold within the Region. Thus, while the non-basic or local consuming industry sector is involved in the selling of goods and services to the local market within the Region, it generates no income from outside the Region. These distinctions are shown in Table 1.2.

1.3 Organization of the report

The data developed in the employment projections will be presented from local as well as regional perspectives. Chapter 2 gives projections in a regional context. Growth trends in the various industry groups are presented in tabular and graphical formats. Particular attention is given to the changing industrial structure of the region and to the geographic "tilts" inherent in the projections.

Chapter 3 treats each of the nine counties and provides descriptions of local trends in employment, as well as changes in county industrial structure. In addition, consideration is given to the growth rates of individual counties relative to overall regional growth for the various industries.

While these two chapters comprise the main body of the report, extensive data on the behavior of individual industries is provided in

TABLE 1.2

Classification of Standard Industrial Classification (SIC) divisions and major groups by locational orientation and economic base orientation.

ECONOMIC BASE ORIENTATION	LOCATIONAL ORIENTATION	
	BASIC	POPULATION-SERVING
ECONOMIC BASE ORIENTATION	Locate with respect to interregional transportation routes, resources, and unique site features inter-industry linkages, application economics	Locate with respect to residential population and purchasing power, daytime population concentrations
EXPORTS Generate Income from services outside Metropolitan Region	Agriculture (01, 07-09) Mining (10,13,14) Manufacturing (19-39) Transportation (40,42,44-46) Services (82) ¹ Government (91,92) ² Finance (62,63,67)	Retail trade, ⁴ part ⁴ Services (70)
LOCAL CONSUMPTION Generate Income from local population, firms	Manufacturing, part ³ Wholesale, retail trade (50,62) services (73,80,82,84,89)	Construction (15-17) ⁵ Retail trade (53-59) Transportation, communication, utilities (41,47-49) Finance, insurance, real estate (60,61,64-66) Services (70,72,75,76,78,79, 80,81,86,88) Government (93) ⁶

NOTES:

1. Includes private universities
2. Includes military bases, regional offices of federal departments, state universities and hospitals, etc.
3. Predominantly non-durable manufacturing for local consumption--food products apparel, printing and publishing
4. Portions of sales in these industries generated by tourism, also include amusement and recreation services, personal and miscellaneous services
5. Construction activity, while designated as population-serving, may be distributed in part with respect to future basic locators
6. Should include branch post offices, state employment security offices, state, as well as local government and schools

Appendix A-1. Additionally, Appendix A-2. provides a more detailed description, with examples, of the projection method.

1.3.1 A Note on Tabular and Graphical Data. The report makes use of four basic tabular series:

Series A Area Specific

This series presents employment projections by 5-year intervals from 1970 to 2000 for all relevant geographic units. The 9-County Bay Area and each of the 9 counties' employment is classified by the basic and population serving categories. In each case projections are given in 3 panels for (1) numerical employment (in thousands of employees), (2) percentage shares of 9-County industry totals, and (3) percentage of regional or county total employment.

Series B Industry Specific

This series presents employment projections by 5-year intervals from 1970 to 2000 for all relevant employment categories: total employment, basic employment and each of the basic and population serving groups. The three panels for each industry specific group follow the same format as for Series A.

Series C.1. Target Year Specific - Industries

This series presents projections to "target years" likely to fit frameworks of existing plans - 1980, 1990, and 2000. The following information is provided for the target year 2000.

- a. Employment by geographic units (counties and regions) in 1970,

the target year and incremental employment,

- b. County increments as percentages of total regional increments,
- c. Cumulative growth in Counties and Regions expressed as percentages,
- d. County shares of regional industry totals in 1970 and the target year percentages,
- e. Shares of county or regional total employment (i.e., industrial structures) in 1970 and the target year,
- f. Annual growth rates for 1960-1969 and 1970 - target years

Series C.2 Target Year Specific - Geographic Units

This series presents the same information in Series C.1 except that trends in regional and county geographic units are summarized for each target year.

In addition, Tables providing relative growth analyses are provided for each County and for each industry group. These involve five categories of relative growth rates:

- very slow: more than 1.5 percent less than the regional growth rate;
- slow : between .5 and 1.5 percent less than the regional growth rate;
- average : between .5 percent less than and .5 percent greater than the regional growth rate;
- fast : between .5 percent and 1.5 percent greater than the regional growth rate;
- very fast: more than 1.5 percent greater than the regional growth rate.

One graph is provided for each county, illustrating 30-year growth trends of each basic industry, all population serving, all basic, and total employment. Industries with decreasing shares of County employment

are depicted by dashed lines.

Additionally, a graph is provided for each industry group, showing county and regional trends in that industry. As in the case of the County graphs, decreasing shares are shown with dashed lines.

CHAPTER 2

REGIONAL SUMMARY

2.1 Trends in Industry Groups

Employment in the nine county Bay Area is projected to increase by 1,296,000 during the 30-year period from 1970 to 2000. This represents an average employment growth rate of 1.7 percent, significantly less than the 3.7 percent average growth rate that the Region experienced in the 1960's.

An increase in the importance of population-serving employment relative to basic employment is projected. The percentage of total employment that is population-serving is expected to increase from 53 percent in 1970 to 57 percent in 2000 while the proportion of employment that is basic is expected to decrease correspondingly from 47 percent to 43 percent during the same period. This trend indicates that the regional economy will become more self-sufficient as growth becomes more related to the internal population growth of the Region rather than to economics external to the Region.

Services are projected to be the most important factor in the Region's economic growth. Basic services and services classified as population serving together account for 33.9 percent of the Region's projected growth in employment between 1970 and 2000. Basic services, the fastest growing basic employment category will increase by 122 percent in the projection period, and population-serving services will increase by 87 percent. This category of population oriented services is projected to be the largest employment category by the year 2000, accounting for 15 percent of the Region's total employment. Basic services is projected to be the third largest category with 11 percent of the Region's services.

New technology is expected to be the second fastest growing employment category during the projection period. Employment increases from 85,000 employees in 1970 to 185,000 employees in 2000, an increase of 116 percent. However, despite its rapid growth, by the year 2000 new technology will not be one of the Region's largest industries. At that time it will account for only 6 percent of the Region's total employment in that year.

Other industries with relatively high projected growth rates are local government, metal fabrication and machinery, construction and retail trade.

2.2 Employment Location Trends

Our assumptions in making these projections have been guided by basic principles of urban location. We have used a conception of the Region involving core areas and peripheral areas. Core areas are those which are most attractive to certain types of industry because of superior access, agglomeration economies and existence of unique facilities such as ports and railyards. Increasing densities of employment and population in core areas tend to reduce their relative attractiveness for these certain types of industry: available land becomes more scarce and the potential labor force tends to reside at greater and greater distances from the core areas. Thus, growth over time leads to formation of new employment centers.

The application of these considerations as well as more specific knowledge brought to the process by individual staff members were used to make the allocations of regional forecasts to the county level.

Each of the industrial categories was treated separately in a series of round table discussions by the staff of the Joint Program to modify the relative growth rates to achieve acceptable results for this round in the projection process.

The operational results of these modifications and an interpretation of the highlights of the projection pattern is shown below for each industry. In each industrial summary the comparative size of regional growth is described, the growth patterns are described with a statement of distribution assumptions where possible, and these projections are compared with projections based on relative growth rates of the sixties. Further detail on this comparison is shown at the end of Appendix A-2.

For further analysis of these industrial growth patterns see the industry specific tables and graphs in Appendix A-1.

Since the allocation of employment to the counties was done separately for each industry, a summary of the growth, distribution characteristics, growth assumptions, and comparisons with trends is given for each of the Basic Employment categories. Population-serving industries were treated separately, as a unit, therefore, a summary for this larger category is given as well.

2.2.1 Institutional Services. Institutional Service Employment, including miscellaneous business services, educational services, museums, and miscellaneous services, accounts for the largest increment in basic employment in the Region between 1970 and 2000. 186,000 new jobs in this industry are expected, accounting for 40 percent of new basic employment and 15 percent of total new employment.

Most of the counties will grow at approximately the same rate as the Region. However, San Francisco will grow slower than the Region, and Napa and Solano will grow very slowly compared to the Region. Because of San Francisco's large base in this industry, it will still receive almost 12 percent

of the new jobs in the industry.

These assumptions reflect our judgment that all of the counties will maintain their relative positions except San Francisco and the outlying less urbanized counties of Napa and Solano.

Projections based on trends in the sixties would have projected declines in employment in this category for Napa, Solano, and San Francisco and very much more employment in the nearby urbanized counties, particularly Santa Clara, Contra Costa and Marin.

2.2.2 New Technology. The second largest growth industry in basic employment is New Technology, including ordnance, electrical equipment, and instruments. The 98,000 new jobs in this industry account for 21 percent of new basic employment and 7.8 percent of total employment between 1970 and 2000.

Over 50 percent of this new employment is expected to occur in Santa Clara County, although its growth rate will be slower than the Region.

The other two southern counties, Alameda and San Mateo, will receive the lion's share of the rest, both growing very fast with respect to the Region and already growing from a significant base.

The remaining counties will receive small increments in this industry, but will be growing very fast, except San Francisco, Napa and Solano.

These assumptions reflect our judgment that Santa Clara County will continue to be the center for this industry, but will be sharing its growth with the other counties which will be catching up with Santa Clara, particularly Alameda and San Mateo Counties. The other counties with small amounts of employment in this industry in the base year are expected to have very high growth rates, but account for relatively small amounts of total growth in

the industry. San Francisco is expected to continue its decline in this industry, while Napa and Solano Counties are not expected to be particularly active in this industry.

When compared with projections based on the trends in the sixties, these projections show much lower employment in this category in Santa Clara, Marin, and Sonoma and a slower decline for San Francisco. These results were achieved by large increases in the relative growth rates of Alameda, Contra Costa, San Francisco, San Mateo, and Solano Counties, moderate reduction of the relative growth rate of Santa Clara County, and large reductions in the relative growth rate of Marin and Sonoma Counties.

2.2.3 Metal Fabrication and Machinery. Metal Fabrication and Machinery industries account for 65,000 new jobs, 14 percent of new basic employment, and 5 percent of new total employment, between 1970 and 2000.

Alameda and Santa Clara already have large amounts of employment in these industries. They will account for 80 percent of new employment in this industry, although they will only grow at an average rate. Contra Costa County will grow very fast relative to Regional growth and will absorb 14 percent of the new jobs. San Francisco will decline in this industry. Sonoma and San Mateo Counties account for most of the remaining growth in the Region.

These growth patterns reflect staff judgment that the decentralization of this industry from San Francisco to the most industrialized counties of the Region found in the sixties will continue. However, this decentralization is not projected to occur at a rate as fast as that found in the sixties.

Using trends alone to project employment in this industry would have resulted in the allocation of more new employment to Santa Clara County than is expected for the entire Region. These projections limit this growth in Santa Clara County to less than a third of the increment for the Region and provide for a greater concentration of employment in this industry in Alameda County.

2.2.4 Federal and State Government. Federal and State Government employees (not including military personnel and State college and university employees) are expected to grow by 34,000 employees by the year 2000. This growth accounts for 7.2 percent of new basic employment and 2.7 percent of all new jobs.

Growth rates for most counties are near the Regional growth rate. Solano County is expected to grow slower than the Region because it already has a large amount of Federal employment at the Mare Island Naval Shipyard and Travis Air Force Base. Sonoma County and Santa Clara County are expected to grow faster than the Region because they are separate SMSA's and are expected to be significant growth areas.

These assumptions provide for 85 percent of new Federal and State jobs to be located in Alameda, San Francisco, and Santa Clara Counties. Trends of the sixties, if projected to 2000 would have provided for massive growth in these jobs in Contra Costa, San Mateo, and Santa Clara Counties with large declines in San Francisco and Solano Counties.

2.2.5 Wholesale Trade. Wholesale Trade includes the wholesale trade industry and retail trade in building materials and farm equipment. This category is expected to provide almost 33,000 new jobs between 1970 and 2000.

This growth accounts for 7.0 percent of new basic employment and 2.6 percent of all new jobs.

The growth patterns expected in the Region are large declines in San Francisco in this industry and very fast growth, relative to the Region, in the smaller counties and fast growth in Alameda and Santa Clara Counties.

These assumptions reflect a continuation of the decentralization of San Francisco's wholesale trade industry in the sixties but with reduced intensity. Most of the new employment in this industry is expected to go to the other large industrialized counties nearby, but the very high relative growth rates of the smaller outlying counties which will allow these counties to begin to catch-up.

Projection of trends of the 1960's would have concentrated 80 percent of the employment in this industry in San Mateo and Santa Clara Counties, with declines in all other counties except Marin.

2.2.6 Centralized Urban Manufacturing. Centralized Urban Manufacturing Industries include textile mill products, apparel and other textile products, printing and publishing, rubber and plastic products (not elsewhere classified), and leather and leather goods. Between 1970 and 2000 this industry is projected to grow by over 25,000 jobs. These new jobs represent 5.4 percent of basic employment growth and 2.0 percent of all new jobs.

The projections show the larger, more industrialized counties receiving this growth with Santa Clara County getting 30 percent, Alameda County getting 25 percent, San Mateo County getting 20 percent, San Francisco getting 11

percent and Contra Costa getting over 7 percent. Growth rates relative to regional growth show fairly high rates for these counties except for San Francisco which grows much slower than the Region as a whole, but still receives a large amount of growth because it begins with a large employment base in these industries.

Projections made solely on trends in relative growth rates show major declines in San Francisco and Alameda County and very much larger gains in San Mateo and Santa Clara Counties. These results were modified by assuming that the very large relative growth rates found in these latter counties could not be maintained through the projection period.

2.2.7 Long Distance Transportation. Long Distance Transportation industries are railroad transportation, trucking and warehousing, water transportation, transportation by air, and pipeline transportation. Over 15,000 new jobs are expected in this industry, representing 3.3 percent of new basic employment and 1.2 percent of all new employment.

The projections show a major decline in jobs in this industry in San Francisco. This is a less severe continuation of trends in the sixties. San Mateo County, which contains the San Francisco Airport, is expected to hold its own, with a growth rate almost equal to the regional growth rate, remaining the largest employer in this industry. However, Alameda County, with a very diverse set of transportation facilities is expected to receive the largest gains in the projection period, approaching San Mateo County by 2000. Santa Clara County is the only other county expected to show a large increase, although some of the other counties will have relatively high growth rates expanding their small base of employment in this

industry.

Projections of 1960's trends would yield massive increases in San Mateo County and precipitous declines in all other counties except Solano. To correct these projections major reductions in the relative growth rates of San Mateo and Solano Counties were made and it was assumed that San Francisco would decline less slowly while assuming major increases in the relative growth rates of Contra Costa and Sonoma Counties.

2.2.8 National Finance and Insurance. National Finance and Insurance includes security and commodity brokers, dealers, exchanges and services, insurance carriers, and holding and other investment companies. Between 1970 and 2000, this industry is expected to grow by almost 15,000 jobs, accounting for 3.1 percent of new basic employment and 1.2 percent of all new jobs.

San Francisco is expected to receive over 46 percent of this growth, growing somewhat slower than the Region as a whole. Alameda, San Mateo, Santa Clara and Sonoma Counties account for the bulk of remainder. This pattern reflects staff judgment that these industries will continue to locate in highly urbanized counties. Sonoma County is not now as highly urbanized as these other counties, however, in the sixties it had the highest relative growth rate in this industry, and this result reflects a severe reduction of that relative growth rate.

If trends had been used to make these projections, the extremely high relative growth rate experienced by Sonoma County in the sixties would have resulted in declines in this industry in every other county except San Mateo, Santa Clara, Napa and Contra Costa Counties.

2.2.9. Petrochemicals and Primary Metals. The category called petrochemicals and primary metals includes employment in chemicals and allied products, petroleum and coal products, and primary metal products. This industry is expected to grow by almost 11,000 jobs between 1970 and 2000, which represents 2.3 percent of new basic employment and 0.9 percent of all new jobs.

It is projected to experience its most significant growth in Contra Costa County with 57 percent of the new jobs, reflecting a relatively fast growth rate. Solano County is expected to grow very fast relative to the Region, but it has a small base and does not achieve a very high absolute growth projection. Its high growth potential is based on its proximity to Contra Costa's large installations and the availability of large tracts of vacant land. The other counties with large amounts of employment in this industry, Alameda, San Francisco, San Mateo and Santa Clara are expected to receive only modest growth. The remaining, less developed counties are expected to receive minimal growth in this industry.

Projections of trends yields a quite different projection, with large declines in Contra Costa County and San Francisco and large increases in Santa Clara, Marin and San Mateo Counties. It was the judgement of the staff that the recent high relative growth rates in the southern counties would not hold up and that the northern counties would receive more of the growth in the long run.

2.2.10 Mining. The mining industry includes metal mining, oil and gas extraction, and nonmetallic metals. It is expected to decline in employment between 1970 and 2000 by about 800 employees. Since it is

difficult to predict where minerals will be found, scant attention was paid to this small industry. Basically it was assumed that there would be little change in the relative distribution of mining employment among the counties.

2.2.11 Decentralized Urban Manufacturing. The decentralized urban manufacturing industries are food and kindred products, lumber and wood products, furniture and fixtures, paper and allied products, clay, sand, and glass products, and miscellaneous manufacturing. Employment in these industries is expected to decline by about 2500 employees between 1970 and 2000.

The projections show a major decline in San Francisco, while other Counties have relatively small changes, reflecting the experience in the sixties, while the remaining counties maintain approximately the same relative share of the remainder of the jobs in the industry.

The major differences between these projections and the trends of the sixties are that the trends would redistribute jobs from Alameda and San Francisco Counties to Santa Clara, San Mateo and Solano Counties while the projections presented here were based on the judgement that this redistribution trend is short term, except that the decline in San Francisco is accepted as a long term trend.

2.2.12 Agriculture, Forestry and Fisheries. Agricultural, Forestry and Fishing industries are expected to decline by over 9,000 employees between 1970 and 2000. Only Napa and Solano Counties are expected to increase employment in this industry. Of the other declining counties only Santa Clara and Alameda are expected to decline faster than the Region

reflecting the intense development pressure on the relatively large acreage in these counties.

2.2.13 Population Serving Industries. The population-serving industries listed in the introduction to this report are expected to grow by 788,000 new jobs between 1970 and 2000. This employment growth represents almost 63 percent of all new employment.

Population serving industries were included in these projections primarily for completeness. It is expected that these projections will be modified to reflect the estimates of the distribution of employment in Basic Industries within the counties and of population within the Region made by the small area allocation models used by ABAG and MTC.

It was assumed that by the year 2000 each county would have population-serving employment in the proportion to the sum of its employment and resident population as projected by the Department of Finance. Strict application of this assumption resulted in what was felt to be unrealistic declines in employment in population-serving industries in San Francisco. Therefore, these industries were held to higher levels and the remaining employment in these industries distributed according to the rule described above.

Table 2.1
County Employment in the Year 2000
(thousands of employees)

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	3.19	2.87	.97	3.62	.00	3.17	5.96	2.77	5.95
Mining	1.49	.17	.14	.01	.48	.00	.17	.19	.30
New Tech.	15.00	6.07	3.57	.63	2.72	38.65	116.41	.20	2.45
Centrurb	14.71	3.68	1.28	.97	23.53	9.79	15.00	.84	1.31
Decentr.	36.07	10.42	.71	.97	9.08	8.99	22.49	4.74	6.42
Met. Mach.	64.51	14.31	.46	.73	8.10	7.17	41.84	.85	3.68
Petro. Met.	14.97	19.18	.40	.79	7.63	7.18	3.35	.23	.36
Ld. Trans.	31.32	4.82	.52	.48	13.91	32.10	9.09	2.36	2.24
Whol Trad.	40.40	11.27	4.69	2.55	29.29	26.83	29.34	2.30	6.49
Nt Fin. In.	8.12	1.07	.71	.09	33.90	4.25	5.41	.32	2.11
Inst. Serv.	105.11	14.69	10.90	2.50	62.37	33.79	106.99	1.91	6.54
F.S. Gov.	44.46	3.92	4.09	3.97	60.38	9.12	19.20	16.71	5.94
All Basic	379.35	92.47	28.44	17.31	251.39	181.04	375.25	37.42	43.79
All Pop Srv.	352.76	198.41	79.98	38.98	356.51	168.94	449.09	84.53	97.58
Total Empl.	732.11	290.88	108.42	56.29	607.90	349.98	824.34	117.95	141.37

ABAG/MTC/DOH Employment Projections
Series A: Area Specific

Table 2.2: Bay Region

	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	37.82	36.41	34.47	32.61	30.93	29.67	28.50
MINING	3.72	3.37	3.04	3.06	2.99	2.98	2.95
NEW TECH	87.58	100.45	116.05	129.92	145.39	164.39	185.70
CENTR URB	45.66	49.92	54.49	57.75	61.21	65.96	71.11
DECENTR	102.43	99.71	96.71	96.65	96.97	98.39	99.89
MET,MACH	78.28	87.03	96.76	105.27	114.69	127.24	141.65
PETRO,MET	43.23	44.73	46.00	47.57	49.19	51.69	54.09
L D TRANS	81.40	80.54	79.98	82.88	86.32	91.43	96.84
WHOL TRAD	120.58	123.95	127.22	132.69	138.31	145.79	153.16
NT FIN,IN	41.37	42.29	43.61	45.26	47.03	51.39	55.98
INST SERV	158.77	179.15	203.64	231.00	263.13	301.58	344.80
F,S GOV	134.00	143.30	156.11	157.12	158.89	163.34	167.79
ALL BASIC	934.84	990.85	1058.08	1121.78	1195.05	1293.85	1402.46
CONSTR	101.44	117.38	135.10	145.88	157.93	172.19	188.51
L TR,CM,U	70.35	74.71	79.73	86.37	93.71	103.52	114.14
RETAIL TR	297.44	321.63	344.83	374.35	405.35	448.24	499.95
LOC FIRE	87.35	90.71	94.21	101.76	110.11	119.66	129.78
LOC SERV	295.42	334.82	374.80	395.64	435.23	484.15	539.49
LOC GOV	187.14	207.90	227.96	251.37	277.62	314.27	354.91
ALL POPSRV	1039.14	1147.15	1256.63	1355.37	1479.95	1643.03	1826.78
TOTAL EMPL	1973.98	2138.00	2314.71	2477.15	2675.00	2936.88	3229.24

[illegible][illegible]

Fig. 2.1
REGIONWIDE INDUSTRY TRENDS

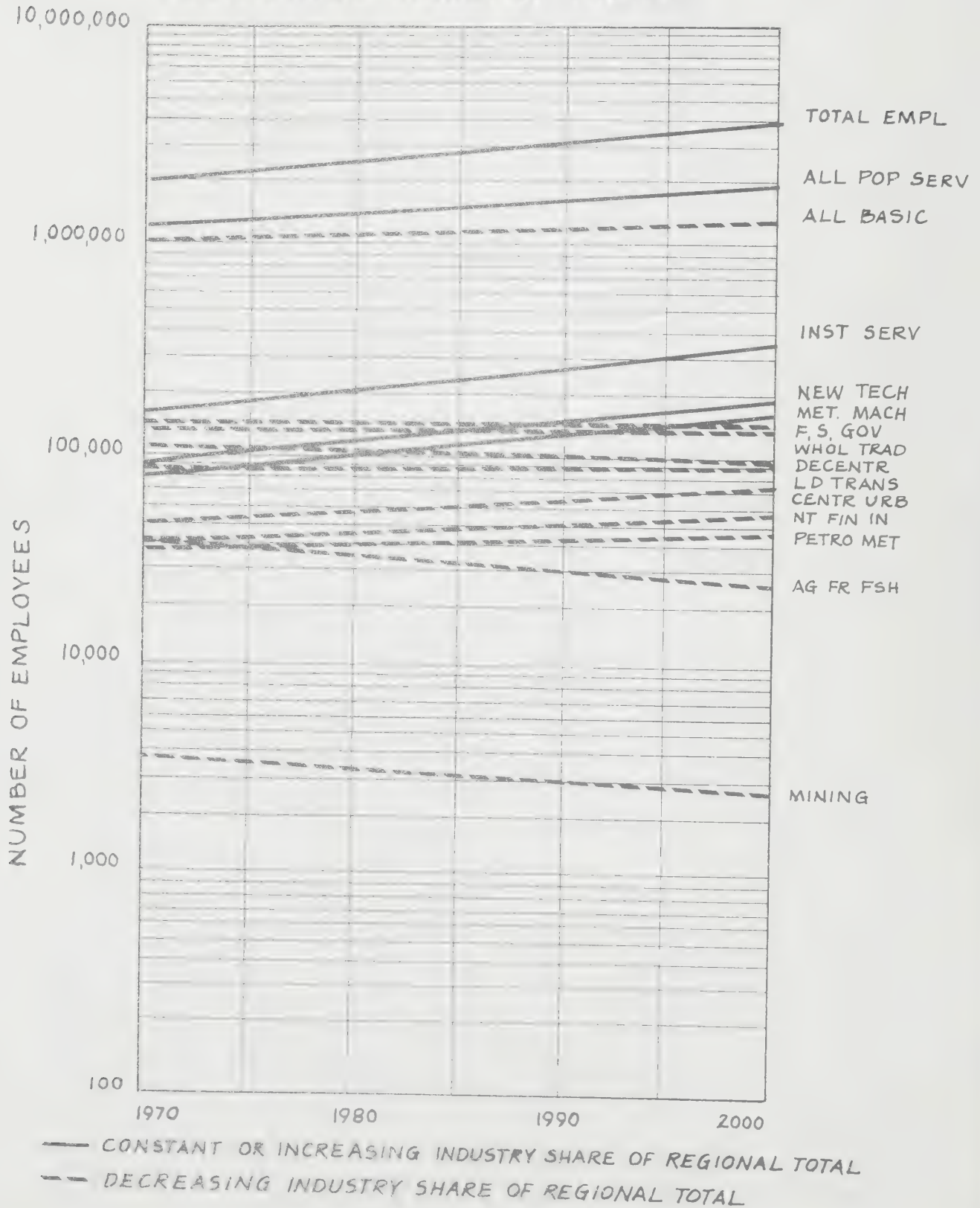
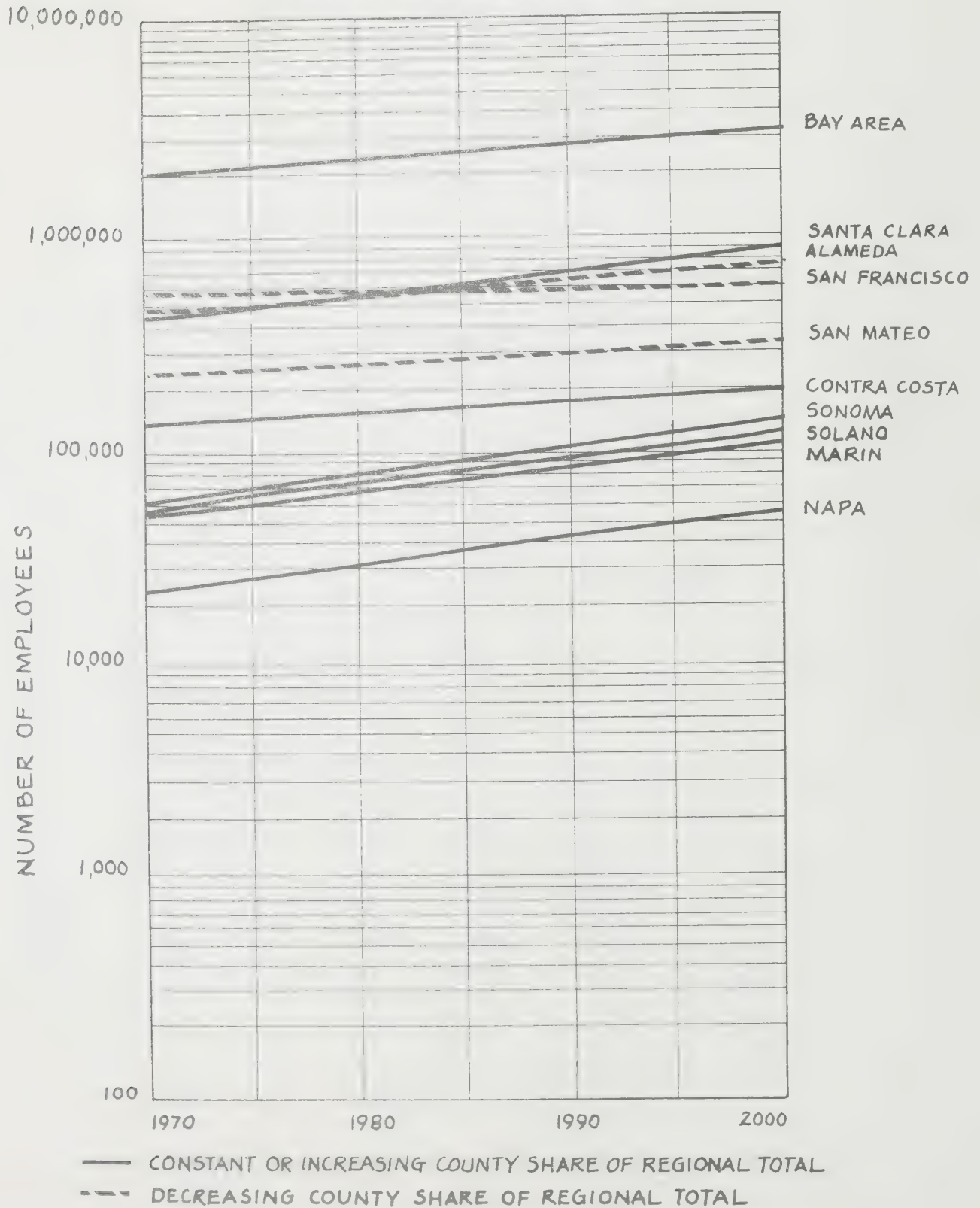


Fig 2.2 REGIONAL EMPLOYMENT TRENDS
TOTAL EMPLOYMENT



ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

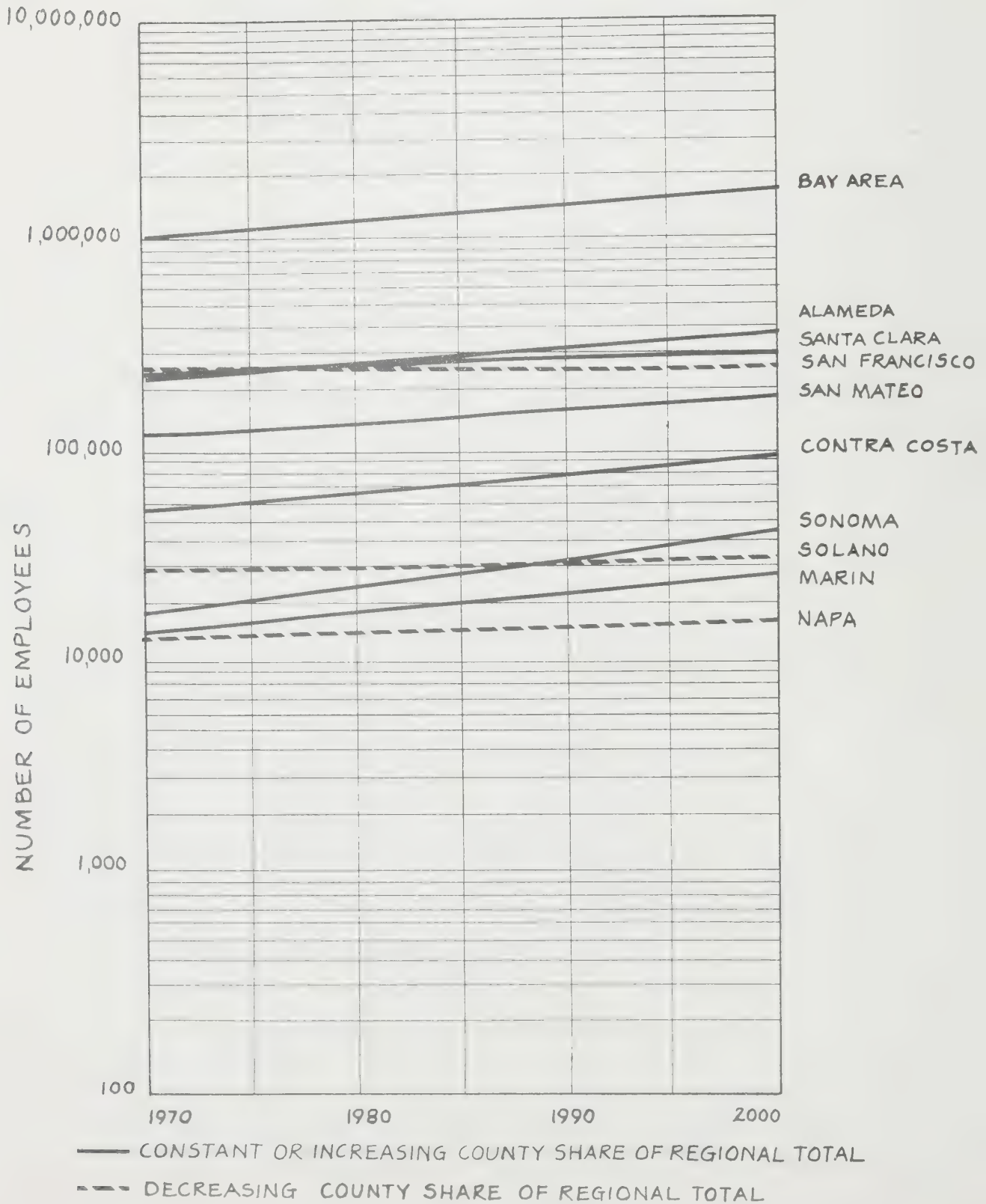
Table 2.4: Basic Employment

COUNTY	ALL BASIC EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	934.84	990.85	1058.08	1121.78	1195.05	1293.85	1402.46
ALAMEDA	228.51	247.03	268.35	289.64	313.79	345.01	379.35
CNTRA CSTA	52.81	57.36	62.46	68.15	74.66	83.06	92.47
MARIN	15.91	17.44	19.26	20.98	22.97	25.56	28.44
NAPA	13.20	13.91	14.65	15.13	15.69	16.47	17.31
SAN FRANCISCO	238.94	239.36	242.11	241.38	241.56	246.42	251.39
SAN MATEO	109.08	116.91	126.07	136.48	148.40	163.83	181.04
SANTA CLARA	220.54	240.50	263.83	285.86	310.52	341.45	375.25
SOLANO	29.32	29.75	30.46	30.87	31.45	32.41	33.42
SONOMA	26.53	28.59	30.89	33.29	36.01	39.64	43.79

ALL BASIC SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	24.44	24.93	25.36	25.82	26.26	26.67	27.05
CNTRA CSTA	5.65	5.79	5.90	6.08	6.25	6.42	6.59
MARIN	1.70	1.76	1.82	1.87	1.92	1.98	2.03
NAPA	1.41	1.40	1.38	1.35	1.31	1.27	1.23
SAN FRANCISCO	25.56	24.16	22.88	21.52	20.21	19.05	17.92
SAN MATEO	11.67	11.80	11.91	12.17	12.42	12.66	12.91
SANTA CLARA	23.59	24.27	24.93	25.48	25.98	26.39	26.76
SOLANO	3.14	3.00	2.88	2.75	2.63	2.50	2.38
SONOMA	2.84	2.89	2.92	2.97	3.01	3.06	3.12

ALL BASIC SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	47.36	46.34	45.71	45.29	44.67	44.06	43.43
ALAMEDA	49.70	49.63	49.94	50.52	50.95	51.37	51.82
CNTRA CSTA	36.12	34.90	33.98	33.52	32.93	32.35	31.79
MARIN	28.08	27.48	27.22	27.05	26.75	26.48	26.23
NAPA	48.19	45.05	42.17	39.35	36.42	33.52	30.75
SAN FRANCISCO	46.38	45.19	44.46	43.74	42.84	42.09	41.35
SAN MATEO	48.48	48.36	48.66	49.52	50.24	50.97	51.73
SANTA CLARA	52.70	51.21	50.10	49.14	47.99	46.76	45.52
SOLANO	50.81	46.42	42.55	38.93	35.28	31.70	28.33
SONOMA	39.28	37.40	35.84	34.67	33.35	32.11	30.98

Fig. 2.3. REGIONAL EMPLOYMENT TRENDS
BASIC EMPLOYMENT



ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table 2.5: Population Serving Employment

COUNTY	ALL POPSRV EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
HAY AREA 9	1039.14	1147.15	1256.63	1355.37	1479.95	1643.03	1826.78
ALAMEDA	231.24	250.67	269.04	283.65	302.12	326.56	352.76
CNTRA CSTA	93.40	107.01	121.36	135.19	152.09	173.72	198.41
MARIN	40.75	46.02	51.49	56.59	62.89	70.95	79.98
NAPA	14.19	16.97	20.09	23.32	27.39	32.67	38.98
SAN FRNC SO	276.29	290.34	302.45	310.45	322.26	339.09	356.51
SAN MATEO	115.94	124.84	133.04	139.17	146.96	157.59	168.94
SANTA CLARA	197.93	229.10	262.73	295.88	336.58	388.79	449.09
SOLANO	28.39	34.34	41.13	48.43	57.70	69.84	84.53
SONOMA	41.01	47.86	55.30	62.74	71.96	83.82	97.58

ALL POPSRV SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
HAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	22.25	21.85	21.41	20.93	20.41	19.88	19.31
CNTRA CSTA	8.99	9.33	9.66	9.97	10.28	10.57	10.86
MARIN	3.92	4.01	4.10	4.18	4.25	4.32	4.38
NAPA	1.37	1.48	1.60	1.72	1.85	1.99	2.13
SAN FRNC SO	26.59	25.31	24.07	22.91	21.78	20.64	19.52
SAN MATEO	11.16	10.88	10.59	10.26	9.93	9.59	9.25
SANTA CLARA	19.05	19.97	20.91	21.83	22.74	23.66	24.58
SOLANO	2.73	2.99	3.27	3.57	3.90	4.25	4.63
SONOMA	3.95	4.17	4.40	4.63	4.86	5.10	5.34

ALL POPSRV SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
HAY AREA 9	52.64	53.66	54.29	54.71	55.33	55.94	56.57
ALAMEDA	50.30	50.37	50.06	49.48	49.05	48.63	48.18
CNTRA CSTA	63.88	65.10	66.02	66.48	67.07	67.65	68.21
MARIN	71.92	72.52	72.78	72.95	73.25	73.52	73.77
NAPA	51.81	54.95	57.83	60.65	63.58	66.48	69.25
SAN FRNC SO	53.62	54.81	55.54	56.26	57.16	57.91	58.65
SAN MATEO	51.52	51.64	51.34	50.48	49.76	49.03	48.27
SANTA CLARA	47.30	48.79	49.90	50.86	52.01	53.24	54.48
SOLANO	49.19	53.58	57.45	61.07	64.72	68.30	71.67
SONOMA	60.72	62.60	64.16	65.33	66.65	67.89	69.02

Fig. 2.4. REGIONAL EMPLOYMENT TRENDS
POPULATION SERVING EMPLOYMENT

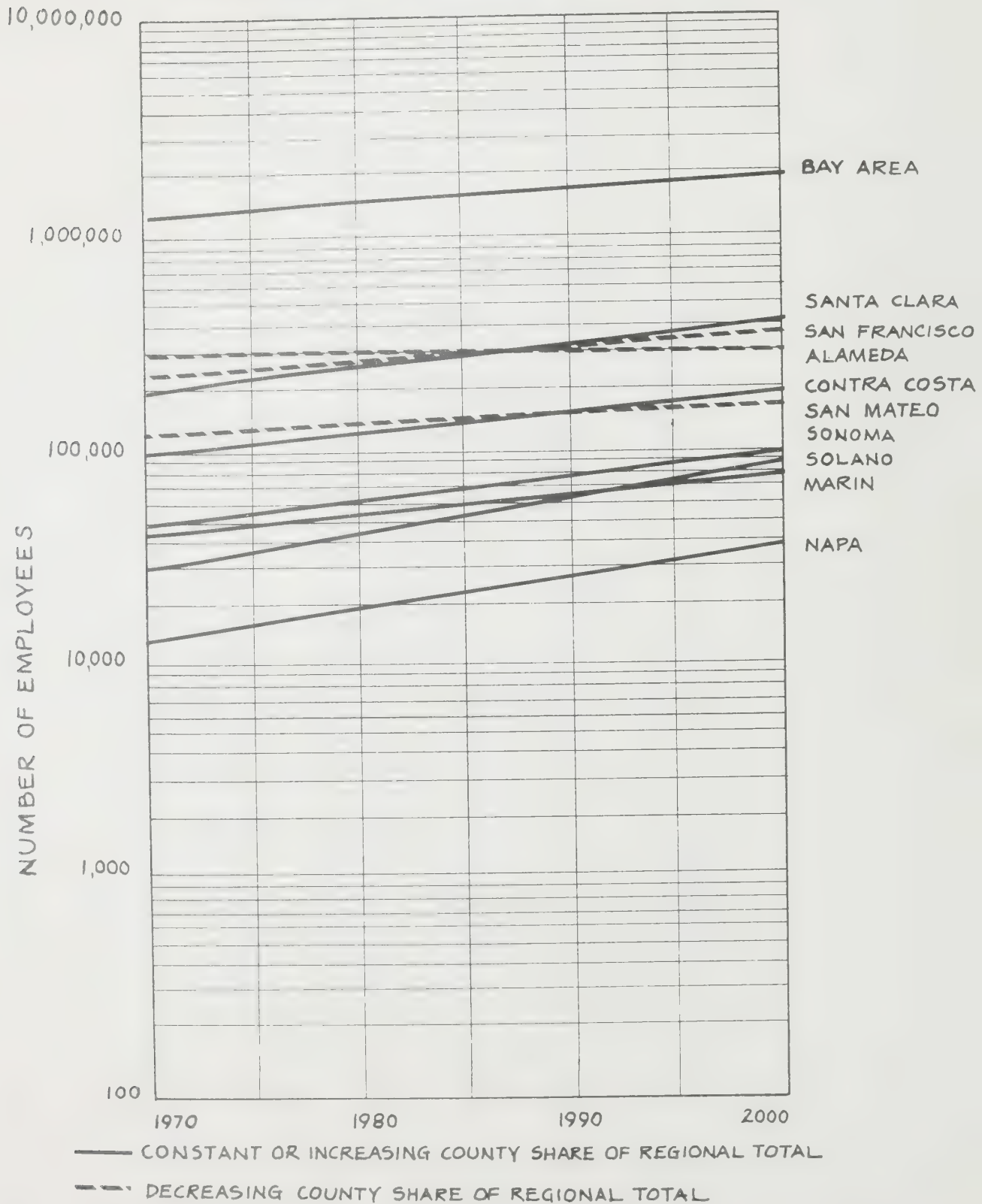


Table 2.6

Employment Growth Analysis
Relative Growth Rates

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	-.96	.54	.02	1.04	.95	.05	-.97	1.05	.55
Mining	.41	-.64	-.73	-1.53	-.76	.78	-.64	.28	.56
New Tech.	1.64	2.16	1.65	.58	-.36	1.64	-.67	.55	2.63
Centr Urb	.44	.93	.22	-1.03	-1.04	.94	.94	.92	-.03
Decentr.	.65	.65	-.35	.33	-2.34	.65	-.35	.64	.76
Met. Mach.	.18	1.59	-1.42	2.20	-2.82	-.82	.18	.22	2.26
Petro. Met.	-.45	.55	.56	.52	-.58	.05	.05	4.44	2.68
Ld. Trans.	.94	.43	.13	1.11	-2.06	-.06	.96	1.95	1.93
Whol Trad.	.57	1.56	1.56	1.26	-1.92	.27	.57	1.58	1.57
Nt Fin. In.	.22	-.08	.23	.96	-.27	1.22	.22	-.32	1.23
Inst. Serv.	.36	.36	.36	-1.64	-1.13	.36	.36	-1.63	.35
F.S. Gov.	.06	-.13	-.13	-.13	-.03	-.13	.87	-.90	.87
All Basic	.34	.52	.59	-.45	-1.18	.34	.42	-.91	.32
All Pop Srv.	-.47	.63	.37	1.50	-1.03	-.62	.85	1.77	1.01
Total Empl.	-.09	.65	.52	.76	-1.08	-.17	.62	.74	.82

Table 2.7

Employment Growth Analysis
Relative Growth Rates (Upper half of box)
and Percentage share of Regional Growth (Lower half of box)

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	-.96 n.a.	.54 n.a.	.02 n.a.	1.04 n.a.	.95 n.a.	.05 n.a.	-.97 n.a.	1.05 n.a.	.55 n.a.
Mining	.41 n.a.	-.64 n.a.	-.73 n.a.	-1.53 n.a.	-.76 n.a.	.78 n.a.	-.64 n.a.	.28 n.a.	.56 n.a.
New Tech.	1.64 10.86	2.16 4.65	1.65 2.59	.58 .39	-.36 1.31	1.64 28.00	-.67 50.12	.55 .12	2.63 1.96
Centr Urb	.44 25.30	.93 7.43	.22 2.00	-1.03 .47	-1.04 11.16	.94 19.80	.94 30.33	.92 1.69	-.03 1.81
Decentr.	.65 n.a.	.65 n.a.	-.35 n.a.	.33 n.a.	-2.34 n.a.	.65 n.a.	-.35 n.a.	.64 n.a.	.76 n.a.
Met. Mach.	.18 48.54	1.59 14.80	-1.42 .11	2.20 .82	-2.82 n.a.	-.82 3.31	.18 31.48	.22 .65	2.26 4.17
Petro. Met.	-.45 11.60	.55 57.00	.56 1.20	.52 2.30	-.58 3.50	.05 14.09	.05 6.54	4.44 1.66	2.68 2.12
Ld. Trans.	.94 73.96	.43 8.16	.13 .65	1.11 1.23	-2.06 n.a.	-.06 29.86	.96 21.70	1.95 8.10	1.95 7.64
Whol Trad.	.57 41.71	1.56 17.50	1.56 7.27	1.26 3.59	-1.92 n.a.	.27 22.59	.57 30.29	1.58 3.59	1.57 10.10
Nt Fin. In.	.22 17.18	-.08 1.78	.23 1.51	.96 .27	-.27 46.20	1.22 14.17	.22 11.43	-.32 .41	1.23 7.05
Inst. Serv.	.36 33.13	.36 4.63	.36 3.43	-1.64 .33	-1.13 11.80	.36 10.65	.36 33.73	-1.63 .25	.35 2.06
F.S. Gov.	.06 28.47	-.13 1.95	-.13 2.04	-.13 1.98	-.03 34.68	-.13 4.59	.87 21.81	-.90 n.a.	.87 6.75
All Basic	.34 32.26	.52 8.48	.59 2.68	-.45 .88	-1.18 2.66	.34 15.39	.42 33.08	-.91 .88	.32 3.69
All Pop Srv.	-.47 15.43	.63 13.33	.37 4.98	1.50 3.15	-1.03 10.18	-.62 6.73	.85 31.89	1.77 7.13	1.01 7.18
Total Empl.	-.09 21.70	.65 11.53	.52 4.12	.76 2.30	-1.08 7.38	-.17 9.95	.62 32.33	.74 4.80	.82 5.88

Table 2.8

Employment Growth Analysis
Employment Increments (Thousands of employees - upper half of box)
and Percentage Share of Regional Growth (Lower half of box)

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	-2.47 n.a.	-.37 n.a.	-.31 n.a.	.10 n.a.	0. n.a.	-.98 n.a.	-4.62 n.a.	.08 n.a.	-.75 n.a.
Mining	-.17 n.a.	-.09 n.a.	-.08 n.a.	-.01 n.a.	-.28 n.a.	0. n.a.	-.09 n.a.	-.03 n.a.	-.02 n.a.
New Tech.	10.66 10.86	4.56 4.65	2.54 2.59	.38 .39	1.29 1.31	27.47 28.00	49.18 50.12	.12 .12	1.92 1.96
Centr Urb	6.44 25.30	1.89 7.43	.51 2.00	.12 .47	2.84 11.16	5.04 19.80	7.72 30.33	.43 1.69	.46 1.81
Decentr.	5.59 n.a.	1.61 n.a.	-.10 n.a.	.07 n.a.	-9.88 n.a.	1.40 n.a.	-3.13 n.a.	.73 n.a.	1.17 n.a.
Met. Mach.	30.76 48.54	9.38 14.80	.07 .11	.52 .82	-2.46 n.a.	2.10 3.31	19.95 31.48	.41 .65	2.64 4.17
Petro. Met.	1.26 11.60	6.19 57.00	.13 1.20	.25 2.30	.38 3.50	1.53 14.09	.71 6.54	.18 1.66	.23 2.12
Ld. Trans.	11.42 73.96	1.26 8.16	.10 .65	.19 1.23	-7.92 n.a.	4.61 29.86	3.35 21.70	1.25 8.10	1.18 7.64
Whol Trad.	13.59 41.71	5.70 17.50	2.37 7.27	1.17 3.59	-11.94 n.a.	7.36 22.59	9.87 30.29	1.17 3.59	3.29 10.10
Nt Fin. In.	2.51 17.18	.26 1.78	.22 1.51	.04 .27	6.75 46.20	2.07 14.17	1.67 11.43	.06 .41	1.03 7.05
Inst. Serv.	61.63 33.13	8.61 4.63	6.39 3.43	.61 .33	21.95 11.80	19.81 10.65	62.73 33.72	.47 .25	3.83 2.06
F.S. Gov.	9.62 28.47	.66 1.95	.69 2.04	.67 1.98	11.72 34.68	1.55 4.59	7.37 21.81	-.77 n.a.	2.28 6.75
All Basic	150.84 32.26	39.66 8.48	12.53 2.68	4.11 .88	12.45 2.66	71.96 15.39	154.71 33.08	4.10 .88	17.26 3.69
All Pop Srv.	121.52 15.43	105.01 13.33	39.23 4.98	24.79 3.15	80.22 10.18	53.00 6.73	251.16 31.89	56.14 7.13	56.57 7.18
Total Empl.	272.36 21.70	144.67 11.53	51.76 4.12	28.90 2.30	92.67 7.38	124.96 9.95	405.87 32.33	60.24 4.80	73.83 5.88

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table 2.9: Total Employment

	PROJECTIONS OF TOTAL EMPLOYMENT FOR 2000												
	EMPLOYMENT (THOUSANDS)			SHARE INCR	PERCENT	SHARE OF REG.TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	-----	-----	-----	OF TOT.INCR	GROWTH	FOR INDUSTRY	EMPLOYMENT			----	----	TO REG.GRTH	(PCT/YR)
	1970	2000	INCR.	(PCT)	1970-*.	1970	2000	1970	2000	1960-69	1970-*.	1960-69	1970-*..
BAY AREA 9	1973.98	3229.24	1255.26	100.00	63.59	100.00	100.00	100.00	100.00	3.67	1.65	0.	0.
ALAMEDA	459.75	732.11	272.36	21.70	59.24	23.29	22.67	100.00	100.00	3.26	1.56	-.40	-.09
CNTRA CSTA	146.21	290.88	144.67	11.53	98.95	7.41	9.01	100.00	100.00	4.09	2.32	.40	.65
MARIN	56.66	108.42	51.76	4.12	91.35	2.87	3.36	100.00	100.00	5.84	2.19	2.09	.52
NAPA	27.39	56.29	28.90	2.30	105.51	1.39	1.74	100.00	100.00	3.94	2.43	.26	.76
SAN FRNC SO	515.23	607.90	92.67	7.38	17.99	26.10	18.82	100.00	100.00	1.53	.55	-2.06	-1.08
SAN MATEO	225.02	349.98	124.96	9.95	55.53	11.40	10.84	100.00	100.00	4.68	1.48	.97	-.17
SANTA CLARA	418.47	824.34	405.87	32.33	96.99	21.20	25.53	100.00	100.00	7.00	2.29	3.21	.62
SOLANO	57.71	117.95	60.24	4.80	104.38	2.92	3.65	100.00	100.00	3.11	2.41	-.54	.74
SONOMA	67.54	141.37	73.83	5.88	109.31	3.42	4.38	100.00	100.00	3.97	2.49	.29	.82

*2 000

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table 2.10: All Basic Employment

PROJECTIONS OF BASIC EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE OF TOT. INCR	PERCENT INCR	GROWTH	SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000				FOR INDUSTRY (PCT)	2000	EMPLOYMENT (PCT)	2000	---- (PCT/YR) ----	1970-*	TO REG. GRWTH (PCT/YR)	1970-*
			INCR.	(PCT)	1970-*	1970		1970		1960-69		1960-69	
BAY AREA 9	934.84	1402.46	467.62	100.00	50.02	100.00	100.00	47.36	43.43	2.90	1.36	0.	0.
ALAMEDA	228.51	379.35	150.84	32.26	66.01	24.44	27.05	49.70	51.82	2.61	1.70	-.28	.34
CNTRA CSTA	52.81	92.47	39.66	8.48	75.10	5.65	6.59	36.12	31.79	2.06	1.88	-.81	.52
MARIN	15.91	28.44	12.53	2.68	78.76	1.70	2.03	28.08	26.23	5.91	1.96	2.93	.59
NAPA	13.20	17.31	4.11	.88	31.14	1.41	1.23	48.19	30.75	1.51	.91	-1.35	-.45
SAN FRNC SO	238.94	251.39	12.45	2.66	5.21	25.56	17.92	46.38	41.35	.76	.17	-2.08	-1.18
SAN MATEO	109.08	181.04	71.96	15.39	65.97	11.67	12.91	48.48	51.73	4.28	1.70	1.34	.34
SANTA CLARA	220.54	375.25	154.71	33.08	70.15	23.59	26.76	52.70	45.52	6.57	1.79	3.57	.42
SOLANO	29.32	33.42	4.10	.88	13.98	3.14	2.38	50.81	28.33	1.50	.44	-1.36	-.91
SONOMA	26.53	43.79	17.26	3.69	65.06	2.84	3.12	39.28	30.98	1.58	1.68	-1.28	.32

*2 000

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table 2.11: All Population Serving Employment

PROJECTIONS OF POP-SERV EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE OF TOT. INCR.	PERCENT INCR (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000			1970-*,	1970	2000	1970	2000	1960-69	1970-*,	1960-69	1970-*,
BAY AREA 9	1039.14	1826.78	787.64	100.00	75.80	100.00	100.00	52.64	56.57	4.63	1.90	0.	0.
ALAMEDA	231.24	352.76	121.52	15.43	52.55	22.25	19.31	50.30	48.18	4.00	1.42	-.60	-.47
CONTRA COSTA	93.40	198.41	105.01	13.33	112.43	8.99	10.86	63.88	68.21	6.43	2.54	1.72	.63
MARIN	40.75	79.98	39.23	4.98	96.27	3.92	4.38	71.92	73.77	5.80	2.27	1.12	.37
NAPA	14.19	38.98	24.79	3.15	174.70	1.37	2.13	51.81	69.25	5.46	3.43	.79	1.50
SAN FRANCISCO	276.29	356.51	80.22	10.18	29.03	26.59	19.52	53.62	58.65	2.37	.85	-2.15	-1.03
SAN MATEO	115.94	168.94	53.00	6.73	45.71	11.16	9.25	51.52	48.27	5.26	1.26	.61	-.62
SANTA CLARA	197.93	449.09	251.16	31.89	126.89	19.05	24.58	47.30	54.48	7.51	2.77	2.76	.85
SOLANO	28.39	84.53	56.14	7.13	197.75	2.73	4.63	49.19	71.67	5.32	3.70	.66	1.77
SONOMA	41.01	97.58	56.57	7.18	137.94	3.95	5.34	60.72	69.02	5.94	2.93	1.25	1.01

*2 000

CHAPTER 3

COUNTY SUMMARIES

3.1 Alameda County

Alameda County is expected to continue to be a major center of employment, accounting for over a fifth of the Region's total employment by the year 2000. Employment in this county is expected to increase by 59 percent during the projection period. This is slightly less than the regional increase of 64 percent.

Unique to Alameda's employment growth is its increase in basic industries relative to service industries. In the projected period, basic employment increases by 66 percent in Alameda County while the Region's basic employment increases by 50 percent. In the same period, population-serving employment increases by only 53 percent in Alameda compared to 76 percent in the Region.

During the projection period, new technology manufacturing is expected to be the county's fastest growing industry. Despite this high growth rate, it still accounts for only 2 percent of Alameda County's total employment by the year 2000. New technology in Alameda County is expected to be more industrial related technology rather than aerospace, as is the case in Santa Clara County.

Institutional services is the second fastest growing industry in Alameda County. By the year 2000 this industry is expected to increase

by 142 percent in the county, and its share of the Region's total institutional service employment is expected to be 30 percent. This increased attractiveness of downtown Oakland to office employment is a major factor in Alameda's projected increase in basic service employment.

Alameda County is expected to remain a major center for metal fabrication and machinery. Between 1970 and 2000 the county increases its share of the Region's total employment in this industry from 43 percent to 46 percent. Available industrial land in the southern part of the county is an important reason for Alameda's continued growth in metal fabrication and machinery.

TABLE 3.1: ALAMEDA COUNTY

	ALAMEDA EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
AG.FR.FSH	5.66	5.21	4.71	4.25	3.84	3.50	3.19
MINING	1.66	1.58	1.49	1.51	1.49	1.50	1.49
NEW TECH	4.34	5.44	6.84	8.32	10.09	12.33	15.00
CENTR URB	8.27	9.29	10.40	11.28	12.21	13.42	14.71
DECENTR	30.48	30.85	31.01	32.04	33.15	34.61	36.07
MET.MACH	33.75	38.14	42.98	47.24	51.86	57.81	64.51
PETRO.MET	13.71	13.89	13.97	14.13	14.28	14.66	14.97
L D TRANS	19.90	20.81	21.76	23.66	25.77	28.45	31.32
WHOL TRAD	26.81	28.62	30.39	32.67	34.96	37.71	40.40
NT FIN.IN	5.61	5.80	6.06	6.36	6.68	7.38	8.12
INST SERV	43.48	50.08	58.05	67.06	77.72	90.54	105.11
F.S GOV	34.84	37.32	40.69	41.12	41.74	43.10	44.46
ALL BASIC	228.51	247.03	268.35	289.64	313.79	345.01	379.35
CONSTR	22.32	25.54	29.11	30.99	33.00	35.28	37.77
L TR.CM.U	12.67	13.39	14.20	15.27	16.42	17.95	19.55
RETAIL TR	68.33	72.34	75.83	80.38	84.86	91.56	99.06
LOC FIRE	15.28	15.77	16.27	17.42	18.65	20.01	21.39
LOC SERV	64.61	72.09	79.24	81.92	88.04	95.43	103.35
LOC GOV	48.03	51.49	54.39	57.67	61.15	66.33	71.64
ALL POPSRV	231.24	250.67	269.04	283.65	302.12	326.56	352.76
TOTAL EMPL	459.75	497.70	537.39	573.29	615.91	671.57	732.11

	ALAMEDA	SHARE OF	9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)				
AG,FR,FSH	14.97	14.31	13.66	13.03	12.42	11.80	11.19
MINING	44.62	46.88	49.01	49.35	49.93	50.34	50.51
NEW TECH	4.96	5.42	5.89	6.40	6.94	7.50	8.08
CENTR URB	18.11	18.61	19.09	19.53	19.95	20.35	20.69
DECENTR	29.76	30.94	32.06	33.15	34.19	35.18	36.11
MET,MACH	43.11	43.82	44.42	44.88	45.22	45.43	45.54
PETRO,MFT	31.71	31.05	30.37	29.70	29.03	28.36	27.68
L D TRANS	24.45	25.84	27.21	28.55	29.85	31.12	32.34
WHOL TRAD	22.23	23.09	23.89	24.62	25.28	25.87	26.38
NT FIN,IN	13.56	13.71	13.90	14.05	14.20	14.36	14.51
INST SERV	27.39	27.95	28.51	29.03	29.54	30.02	30.48
F+S GOV	26.00	26.04	26.06	26.17	26.27	26.39	26.50
ALL BASIC	24.44	24.93	25.36	25.82	26.26	26.67	27.05
CONSTR	22.00	21.80	21.55	21.24	20.90	20.49	20.04
L TR,CM,U	18.01	17.92	17.81	17.68	17.52	17.34	17.13
RETAIL TR	22.97	22.49	21.99	21.47	20.93	20.38	19.81
LOC FIRE	17.49	17.39	17.27	17.12	16.94	16.72	16.48
LOC SERV	21.87	21.53	21.14	20.71	20.23	19.71	19.16
LOC GOV	25.67	24.77	23.86	22.94	22.03	21.11	20.19
ALL POPSRV	22.25	21.85	21.41	20.93	20.41	19.88	19.31
TOTAL EMPL	23.29	23.28	23.22	23.14	23.02	22.87	22.67

[illegible]

Fig. 3.1 BASIC EMPLOYMENT TRENDS
ALAMEDA COUNTY

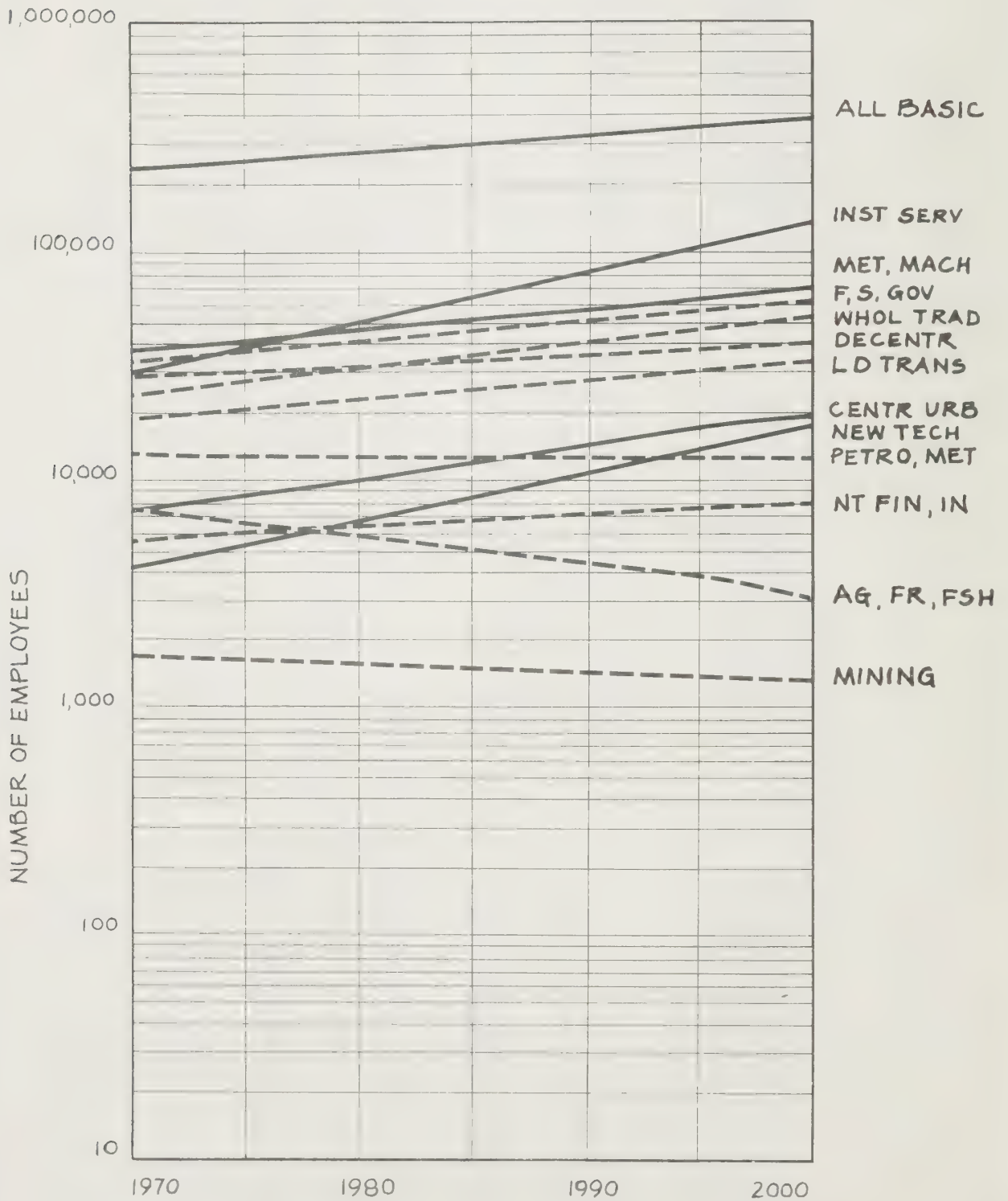


TABLE 3.2
EMPLOYMENT GROWTH ANALYSIS
ALAMEDA COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR. FSH	Slow	26.50
MINING	Average	22.08
NEW TECH	Very Fast	10.86
CENTR URB	Average	25.30
DECENTR	Fast	n.a.
MET, MACH	Average	48.54
PETRO, MET	Average	11.60
L D TRANS	Fast	73.96
WHOL TRAD	Fast	41.71
NT FIN, IN	Average	17.18
INST SERV	Average	33.13
F, S, GOV	Average	28.47
ALL BASIC	Average	32.26
ALL POPSRV	Average	15.43
TOTAL EMP	Average	21.70

ABAG/MTC/DOH Employment Projections
Series C.2: Target Year Specific - Geographic Units

Table 3.3: ALAMEDA COUNTY

PROJECTIONS OF ALAMEDA EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCR	FOR INDUSTRY (PCT)	1970-*,	1970	2000	1970	2000	1960-69	1970-*,	TO REG. GRWTH (PCT/YR)
TOTAL	459.75	732.11	272.36	100.00	59.24	23.29	22.67	100.00	100.00	3.26	1.56	-.40	-.09
BASIC	228.51	379.35	150.84	55.38	66.01	24.44	27.05	49.70	51.82	2.61	1.70	-.28	.34
POP-SERV	231.24	352.76	121.52	44.62	52.55	22.25	19.31	50.30	48.18	4.00	1.42	-.60	-.47
AG, FR, FSH	5.60	3.19	-2.47	-.91	-43.64	14.97	11.19	1.23	.44	-3.20	-1.89	-4.24	-.96
MINING	1.66	1.49	-.17	-.06	-10.24	44.62	50.51	.36	.20	2.25	-.36	1.77	.41
NEW TECH	4.34	15.00	10.66	3.91	245.62	4.96	8.08	.94	2.05	3.35	4.22	-3.54	1.64
CENTR URB	8.27	14.71	6.44	2.36	77.87	18.11	20.69	1.80	2.01	.80	1.94	-.86	.44
DECENTR	30.48	36.07	5.59	2.05	18.34	29.76	36.11	6.63	4.93	-.38	.56	-.57	.65
MET-MACH	33.75	64.51	30.76	11.29	91.14	43.11	45.54	7.34	8.81	3.02	2.18	-.06	.18
PETRO, MET	13.71	14.97	1.26	.46	9.19	31.71	27.68	2.98	2.04	2.41	.29	1.14	-.45
L D TRANS	19.90	31.32	11.42	4.19	57.39	24.45	32.34	4.33	4.28	2.75	1.52	.15	.94
WHOL TRAD	26.81	40.40	13.59	4.99	50.69	22.23	26.38	5.83	5.52	1.55	1.38	-.47	.57
NT FIN, IN	5.61	8.12	2.51	.92	44.74	13.56	14.51	1.22	1.11	.20	1.24	-2.79	.22
INST SERV	43.48	105.11	61.63	22.63	141.74	27.39	30.48	9.46	14.36	7.08	2.99	-.70	.36
F & S GOV	34.84	44.46	9.62	3.53	27.61	26.00	26.50	7.58	6.07	3.49	.82	.30	.06
CONSTR	22.32	37.77	15.45	5.67	69.22	22.00	20.04	4.85	5.16	.62	1.77	-.60	-.31
L TR, CM, U	12.67	19.55	6.88	2.53	54.30	18.01	17.13	2.76	2.67	2.83	1.46	-1.15	-.17
RETAIL TR	68.33	99.06	30.73	11.28	44.97	22.97	19.81	14.86	13.53	3.19	1.25	-1.08	-.49
LOC FIRE	15.28	21.39	6.11	2.24	39.99	17.49	16.48	3.32	2.92	4.13	1.13	-.62	-.20
LOC SERV	64.61	103.35	38.74	14.22	59.96	21.87	19.16	14.05	14.12	5.33	1.58	.29	-.44
LOC GOV	48.03	71.64	23.61	8.67	49.16	25.67	20.19	10.45	9.79	5.79	1.34	-.87	-.80

*2000

3.2 Contra Costa County

With a projected 99 percent increase in employment, Contra Costa is expected to be one of the fastest growing counties in the Region during the next 30 years. This increase is over one-third greater than the regional percentage increase in employment. Despite the county's high growth rate, it will only account for 9 percent of the Region's total employment by the year 2000.

New technology is projected as the fastest growing industry in Contra Costa. The county has the second highest growth rate for this industry, although it will only have 3 percent of the Region's new technology employment. Other fast growing industries in Contra Costa are population-serving services, basic services, and metal fabrication and machinery. Growth in the services reflects Contra Costa's expected continued growth in population, while growth in metal fabrication and machinery reflects Contra Costa's attraction for heavy industry and the availability of industrial land.

Contra Costa is expected to continue to be a major center for petrochemicals and primary metals. In the year 2000 this county is projected to have 35 percent of all employment in this industry, the largest share among the Region's counties. The county's growth in this slow growing industry is only 48 percent, but this is substantially higher than the regional growth rate in petrochemicals and primary metals of 25 percent.

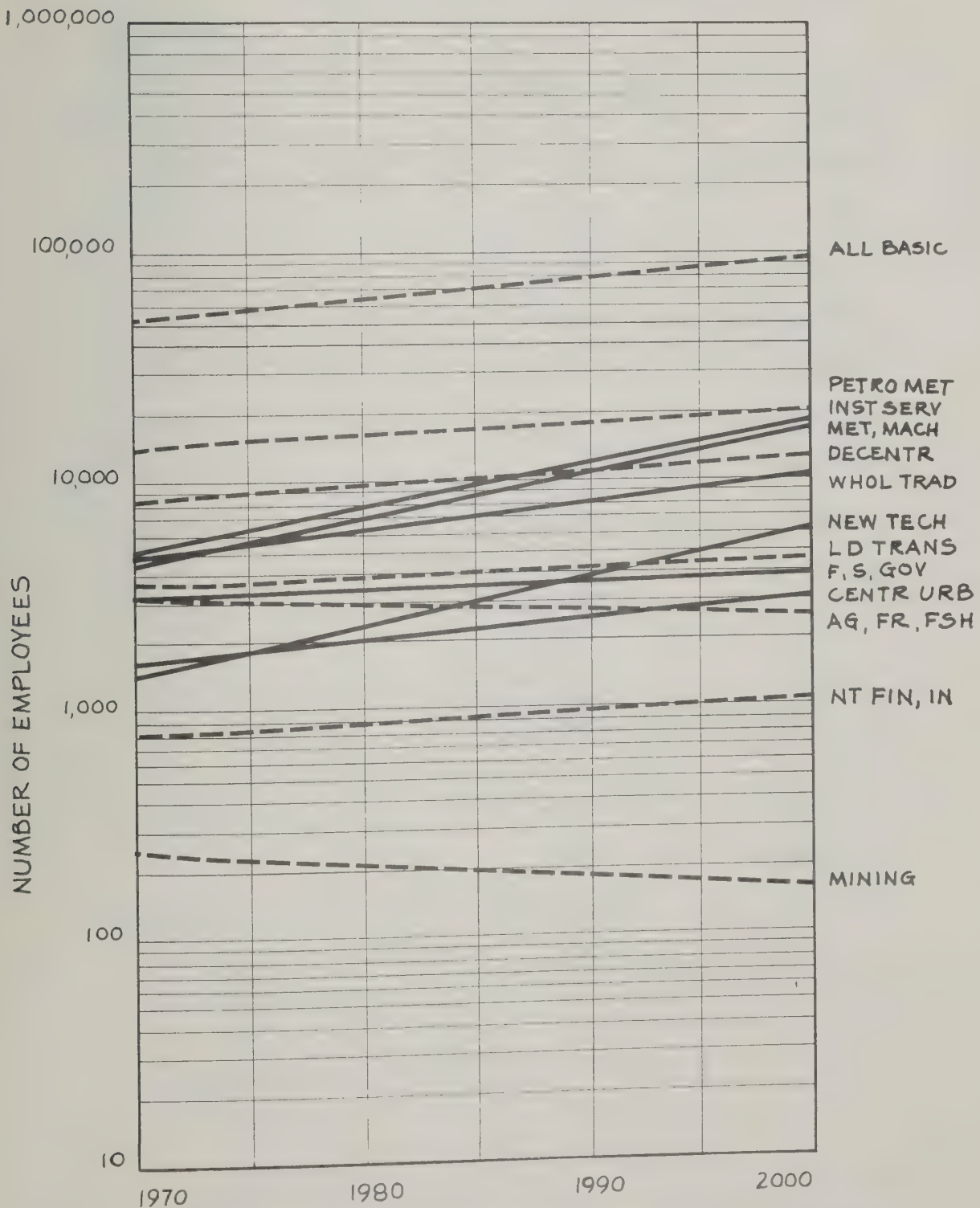
TABLE 3.4: CONTRA COSTA COUNTY

	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	3.24	3.22	3.14	3.05	2.97	2.92	2.87
MINING	.26	.22	.19	.18	.18	.17	.17
NEW TECH	1.51	1.94	2.51	3.13	3.89	4.87	6.07
CENTR URB	1.79	2.06	2.36	2.62	2.91	3.27	3.68
DECENTR	8.81	8.91	8.96	9.26	9.58	10.00	10.42
MET,MACH	4.93	5.98	7.22	8.51	10.01	11.97	14.31
PETRO,MET	12.99	13.84	14.65	15.57	16.55	17.86	19.18
L D TRANS	3.56	3.63	3.70	3.93	4.17	4.49	4.82
WHOL TRAD	5.57	6.24	6.96	7.86	8.84	10.01	11.27
NT FIN,IN	.81	.83	.85	.88	.91	.99	1.07
INST SERV	6.08	7.00	8.11	9.37	10.86	12.65	14.69
F.S GOV	3.26	3.49	3.81	3.79	3.79	3.86	3.92
ALL BASIC	52.81	57.36	62.46	68.15	74.66	83.06	92.47
CONSTR	10.91	12.84	14.98	16.36	17.87	19.60	21.53
L TR,CM,U	4.98	5.57	6.25	7.12	8.10	9.37	10.81
RETAIL TR	28.94	32.20	35.46	39.49	43.80	49.65	56.44
LOC FIRE	4.68	5.28	5.94	6.94	8.12	9.51	11.10
LOC SERV	23.82	28.59	33.81	37.61	43.48	50.70	59.07
LOC GOV	20.07	22.53	24.92	27.67	30.72	34.89	39.46
ALL POPSRV	93.40	107.01	121.36	135.19	152.09	173.72	198.41
TOTAL EMPL	146.21	164.37	183.82	203.34	226.75	256.78	290.88

CNTRA CSTA SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
AG,FR,FSH	8.57	8.84	9.11	9.35	9.60	9.84	10.07
MINING	6.99	6.53	6.25	5.88	6.02	5.70	5.76
NEW TECH	1.72	1.93	2.16	2.41	2.68	2.96	3.27
CENTR URB	3.92	4.13	4.33	4.54	4.75	4.96	5.18
DECENTR	8.60	8.94	9.26	9.58	9.88	10.16	10.43
MET,MACH	6.30	6.87	7.46	8.08	8.73	9.41	10.10
PETRO,MET	30.05	30.94	31.85	32.73	33.65	34.55	35.46
L D TRANS	4.37	4.51	4.63	4.74	4.83	4.91	4.98
WHOL TRAD	4.62	5.03	5.47	5.92	6.39	6.87	7.36
NT FIN,IN	1.96	1.96	1.95	1.94	1.93	1.93	1.91
INST SERV	3.83	3.91	3.98	4.06	4.13	4.19	4.26
F,S GOV	2.43	2.44	2.44	2.41	2.39	2.36	2.34
ALL BASIC	5.65	5.79	5.90	6.08	6.25	6.42	6.59
CONSTR	10.76	10.94	11.09	11.21	11.32	11.38	11.42
L TR,CW+U	7.08	7.46	7.84	8.24	8.64	9.05	9.47
RETAIL TR	9.73	10.01	10.28	10.55	10.81	11.05	11.29
LOC FIRE	5.36	5.82	6.31	6.82	7.37	7.95	8.55
LOC SERV	8.06	8.54	9.02	9.51	9.99	10.47	10.95
LOC GOV	10.72	10.84	10.93	11.01	11.07	11.10	11.12
ALL POPSRV	8.99	9.33	9.66	9.97	10.28	10.57	10.86
TOTAL EMPL	7.41	7.69	7.94	8.21	8.48	8.74	9.01

[illegible]

Fig. 3.2 BASIC EMPLOYMENT TRENDS
CONTRA COSTA COUNTY



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
 - - - - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.5
EMPLOYMENT GROWTH ANALYSIS
CONTRA COSTA COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Fast	3.97
MINING	Slow	11.69
NEW TECH	Very Fast	4.65
CENTR URB	Fast	7.43
DECENTR	Fast	n.a.
MET, MACH	Very Fast	14.80
PETRO, MET	Fast	57.00
L D TRANS	Average	8.16
WHOL TRAD	Very Fast	17.50
NT FIN, IN	Average	1.78
INST SERV	Average	4.63
F, S, GOV	Average	1.95
ALL BASIC	Fast	8.48
ALL POPSRV	Fast	13.33
TOTAL EMP	Fast	11.53

Table 3.6: CONTRA COSTA COUNTY

PROJECTIONS OF CONTRA COSTA EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE OF TOT. INCR. (PCT)	PERCENT INCR. GROWTH 1970-*, (PCT)	SHARE OF REG. TOT. FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE (PCT/YR)		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000			1970	2000	1970	2000	1960-69	1970-*,	1960-69	1970-*,	
TOTAL	146.21	290.88	144.67	100.00	98.95	7.41	9.01	100.00	4.09	2.32	.40	.65	
BASIC	52.81	92.47	39.66	27.41	75.10	5.65	6.59	36.12	2.06	1.88	-.81	.52	
POP-SERV	93.40	198.41	105.01	72.59	112.43	8.99	10.86	63.88	6.43	2.54	1.72	.63	
AG.FR.FSH	3.24	2.87	-.37	-.26	-11.42	8.57	10.07	2.22	.99	1.40	-.40	.31	.54
MINING	.26	.17	-.09	-.06	-34.62	6.99	5.76	.18	.06	-4.41	-1.41	-4.86	-.64
NEW TECH	1.51	6.07	4.56	3.15	301.99	1.72	3.27	1.03	2.09	6.52	4.75	-.58	2.16
CENTR URB	1.79	3.68	1.89	1.31	105.59	3.92	5.18	1.22	1.27	3.99	2.43	2.27	.93
DECENTR	8.81	10.42	1.61	1.11	18.27	8.60	10.43	6.03	3.58	.09	.56	-.09	.65
MET.MACH	4.93	14.31	9.38	6.48	190.26	6.30	10.10	3.37	4.92	4.58	3.62	1.46	1.59
PETRO.MET	12.99	19.18	6.19	4.28	47.65	30.05	35.46	8.88	6.59	-1.66	1.31	-2.88	.55
L D TRANS	3.56	4.82	1.26	.87	35.39	4.37	4.98	2.43	1.66	.43	1.02	-2.11	.43
WHOL TRAD	5.57	11.27	5.70	3.94	102.33	4.62	7.36	3.81	3.87	3.91	2.38	1.85	1.56
NT FIN.IN	.81	1.07	.26	.18	32.10	1.96	1.91	.55	.37	3.78	.93	.69	-.08
INST SERV	6.08	14.69	8.61	5.95	141.61	3.83	4.26	4.16	5.05	10.95	2.98	2.90	.36
F.S GOV	3.26	3.92	.66	.46	20.25	2.43	2.34	2.23	1.35	11.85	.62	8.40	-.13
CONSTR	10.91	21.53	10.62	7.34	97.34	10.76	11.42	7.46	7.40	2.28	2.29	1.04	.20
L IR.CM.U	4.98	10.81	5.83	4.03	117.07	7.08	9.47	3.41	3.72	5.90	2.62	1.79	.98
RETAIL TR	28.94	56.44	27.50	19.01	95.02	9.73	11.29	19.79	19.40	7.76	2.25	3.30	.50
LOC FIRE	4.68	11.10	6.42	4.44	137.18	5.36	8.55	3.20	3.82	8.11	2.92	3.18	1.57
LOC SERV	23.82	59.07	35.25	24.37	147.98	8.06	10.95	16.29	20.31	6.78	3.07	1.67	1.03
LOC GOV	20.07	39.46	19.39	13.40	96.61	10.72	11.12	13.73	13.57	7.01	2.28	.27	.12

*2000

3.3 Marin County

Marin County is expected to continue in its role as a bedroom community. In 1970 Marin had the lowest proportion of basic employment and highest proportion of population-serving employment among the counties, and this trend is expected to continue during the projection period. In the year 2000, 74 percent of the county's total employment is projected to be in population-serving industries.

Marin's employment is projected to increase at a moderate rate during the next thirty years. Its projected yearly growth rate is 2.2 percent, only the sixth highest among the nine counties, but still significantly higher than the regional rate of 1.7 percent. New technology is the county's fastest growing industry. Basic services also has a relatively high growth rate. Other fast growing industries in Marin are population-serving groups such as construction, local finance, insurance, and real estate, local services, and local government.

TABLE 3.7: MARIN COUNTY

Fig. 3.3 BASIC EMPLOYMENT TRENDS
MARIN COUNTY

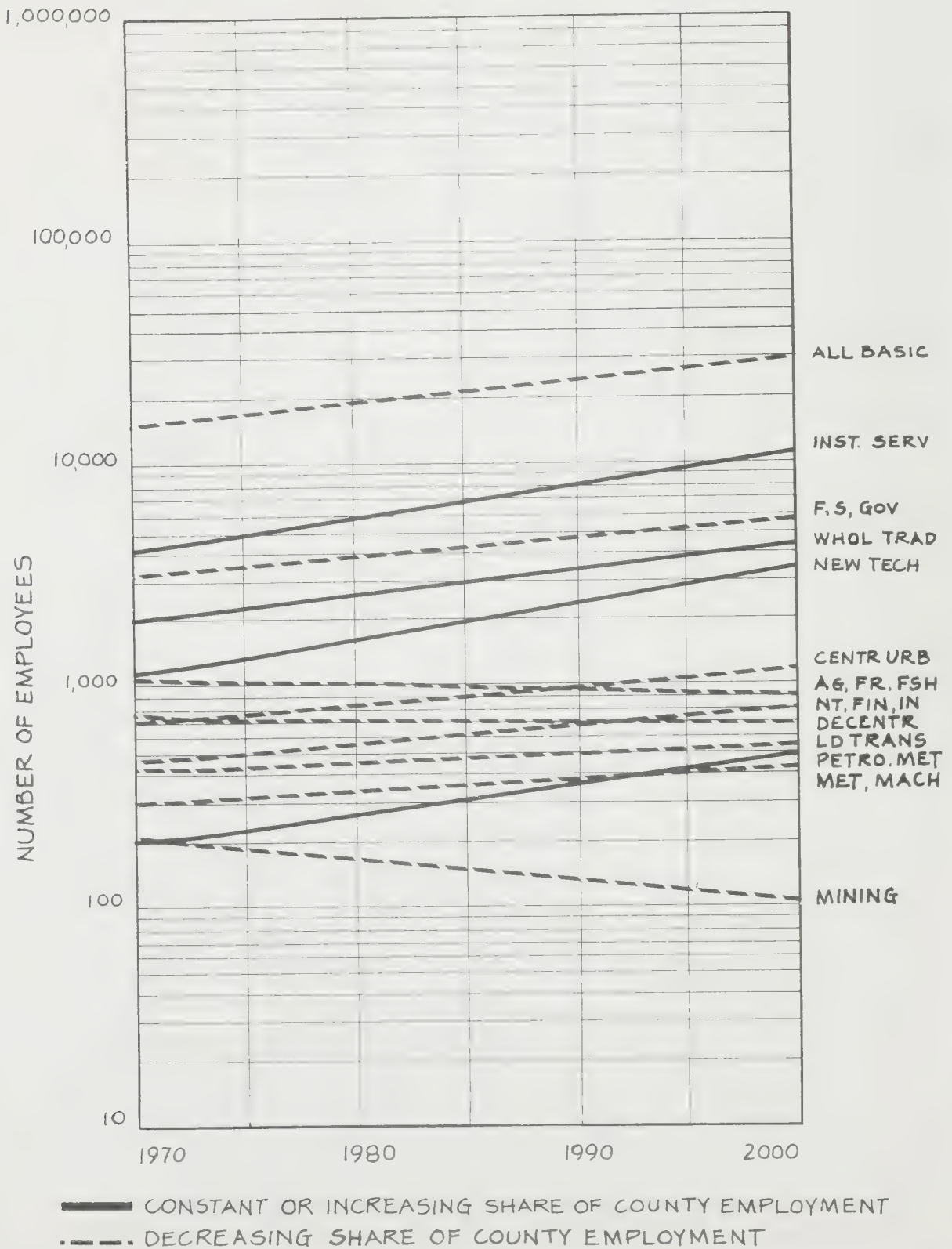


TABLE 3.8
EMPLOYMENT GROWTH ANALYSIS
MARIN COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Average	3.33
MINING	Slow	10.39
NEW TECH	Very Fast	2.59
CENTR URB	Average	2.00
DECENTR	Average	3.94
MET, MACH	Slow	.11
PETRO, MET	Average	1.20
L D TRANS	Average	.65
WHOL TRAD	Very Fast	7.27
NT FIN, IN	Average	1.51
INST SERV	Average	3.43
F, S, GOV	Average	2.04
ALL BASIC	Fast	2.68
ALL POPSRV	Average	4.98
TOTAL EMP	Fast	4.12

ABAG/MTC/DOH Employment Projections
Series C.2: Target Year Specific - Geographic Units

Table 3.9: MARIN COUNTY

PROJECTIONS OF MARIN EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR. GROWTH (PCT)	PERCENT SHARE OF REG. TOT. EMPLOYMENT (PCT)	GROWTH RATE		GROWTH RATE RELATIVE		1960-69	1970-*	1960-69	1970-*
	1970	2000	INCR.			1970	2000	1970	2000				
TOTAL	56.66	108.42	51.76	100.00	91.35	2.87	3.36	100.00	100.00	5.84	2.19	2.09	.52
BASIC	15.91	28.44	12.53	24.21	78.76	1.70	2.03	28.08	26.23	5.91	1.96	2.93	.59
POP-SERV	40.75	79.98	39.23	75.79	96.27	3.92	4.38	71.92	73.77	5.80	2.27	1.12	.37
AG,FR,FSH	1.28	.97	-.31	-.60	-24.22	3.38	3.40	2.26	.89	0.	-.92	-1.07	.02
MINING	.22	.14	-.08	-.15	-36.36	5.91	4.75	.39	.13	0.	-1.50	-.47	-.73
NEW TECH	1.03	3.57	2.54	4.91	246.60	1.18	1.92	1.82	3.29	20.23	4.23	12.22	1.65
CENTR URB	.77	1.28	.51	.99	66.23	1.69	1.80	1.36	1.18	3.25	1.71	1.54	.22
DECENTR	.81	.71	-.10	-.19	-12.35	.79	.71	1.43	.65	-2.43	-.44	-2.61	-.35
MET+MACH	.39	.46	.07	.14	17.95	.50	.32	.69	.42	-2.13	.55	-5.05	-1.42
PETRO+MET	.27	.40	.13	.25	48.15	.62	.74	.48	.37	15.67	1.32	14.25	.56
L D TRANS	.42	.52	.10	.19	23.81	.52	.54	.74	.48	2.83	.71	.23	.13
WHOL TRAD	2.32	4.69	2.37	4.58	102.16	1.92	3.06	4.09	4.33	5.75	2.37	3.65	1.56
NT FIN+IN	.49	.71	.22	.43	44.90	1.18	1.27	.86	.65	2.47	1.24	-.58	.23
INST SERV	4.51	10.90	6.39	12.35	141.69	2.84	3.16	7.96	10.05	18.82	2.99	10.19	.36
F+S GOV	3.40	4.09	.69	1.33	20.29	2.54	2.44	6.00	3.77	4.90	.62	1.67	-.13
CONSTR	3.27	8.52	5.25	10.34	163.61	3.22	4.57	5.77	7.95	-1.40	3.28	-2.60	1.17
L TR,CH+U	2.25	4.32	2.07	4.00	92.00	3.20	3.78	3.97	3.98	3.86	2.20	-.16	.56
PETAIL TR	12.88	22.55	9.67	18.68	75.08	4.33	4.51	22.73	20.80	6.84	1.88	2.42	.14
LQC PIPE	2.05	4.51	2.46	4.75	120.00	2.35	3.48	3.62	4.16	5.65	2.66	.83	1.32
LQC SERV	11.97	23.61	11.64	22.49	97.24	4.05	4.38	21.13	21.78	6.99	2.29	1.87	.26
LQC GOV	8.33	16.37	8.04	15.53	96.52	4.45	4.61	14.70	15.10	7.70	2.28	.91	.12

*2000

3.4 Napa County

Napa County's employment is projected to increase by 106 percent between 1970 and 2000. This represents the second highest rate of growth among the counties in the Region. Over 85 percent of Napa's projected growth is in population-serving industries. By the year 2000, 69 percent of Napa's employment is expected to be population serving.

Construction is expected to be the fastest growing industry in Napa. The growth rate for this industry is projected to be 4.4 percent, the highest in the Region. This increase in construction activity reflects the relatively rapid overall growth projected for the county.

Napa's share of the Region's agriculture, forestry, and fishery employment is expected to increase from 9 percent in 1970 to 13 percent in 2000 even though its growth rate in the county is negligible. This is because agricultural employment in the Region as a whole is decreasing. Agriculture, forestry and fishery employment is expected to be decreasing in importance in Napa's economy, however, accounting for only 6 percent of the county's employment in the year 2000, compared to 13 percent in 1970.

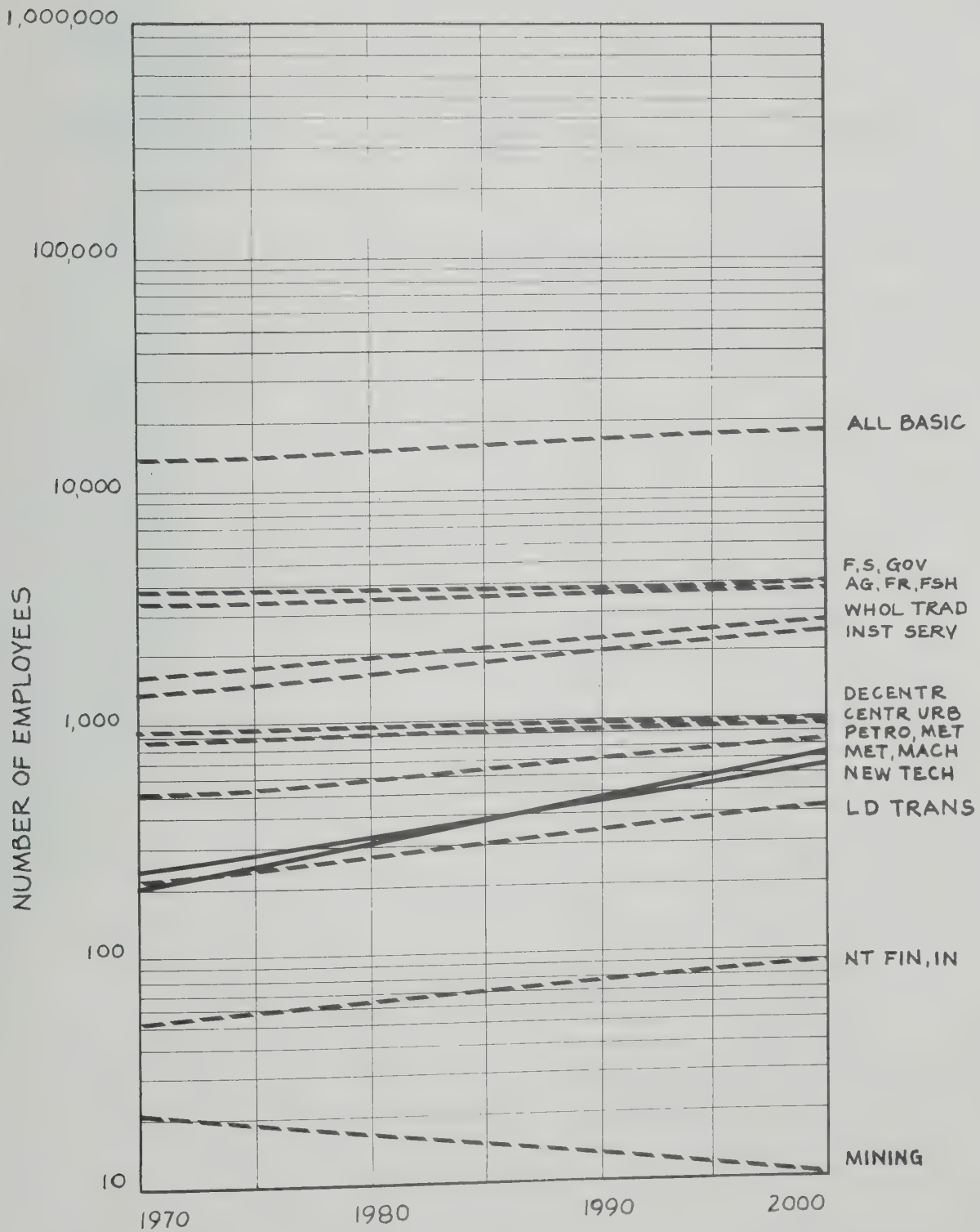
58

	NAPA		EMPLOYMENT (THOUSANDS)				
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	3.52	3.58	3.58	3.57	3.57	3.59	3.62
MINING	.02	.02	.01	.01	.01	.01	.01
NEW TECH	.25	.30	.35	.41	.47	.54	.63
CENTR URB	.85	.89	.93	.93	.94	.95	.97
DECENTR	.90	.90	.89	.90	.92	.95	.97
MET,MACH	.21	.26	.32	.39	.48	.59	.73
PETRO,MET	.54	.57	.60	.64	.68	.74	.79
L D TRANS	.29	.30	.32	.35	.39	.43	.48
WHOL TRAD	1.38	1.53	1.68	1.87	2.06	2.30	2.55
NT FIN,IN	.05	.05	.06	.06	.07	.08	.09
INST SERV	1.89	1.97	2.06	2.16	2.26	2.38	2.50
F.S GOV	3.30	3.54	3.85	3.84	3.84	3.91	3.97
ALL BASIC	13.20	13.91	14.65	15.13	15.69	16.47	17.31
CONSTR	1.15	1.50	1.94	2.35	2.84	3.45	4.20
L TR,CM,U	.93	1.05	1.19	1.36	1.56	1.82	2.11
RETAIL TR	3.91	4.62	5.42	6.42	7.57	9.13	11.03
LOC FIRE	.67	.80	.94	1.16	1.42	1.74	2.14
LOC SERV	5.02	5.94	6.94	7.62	8.70	10.01	11.51
LOC GOV	2.51	3.06	3.66	4.41	5.30	6.52	7.99
ALL POPSRV	14.19	16.97	20.09	23.32	27.39	32.67	38.98
TOTAL EMPL	27.39	30.88	34.74	38.45	43.08	49.14	56.29

NAPA	SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)						
AG+FR+FSH	9.31	9.83	10.39	10.95	11.54	12.10	12.70
MINING	.54	.59	.73	.33	.33	.34	.74
NEW TECH	.29	.30	.30	.32	.32	.33	.34
CENTR URB	1.86	1.78	1.71	1.61	1.54	1.44	1.36
DECENTR	.88	.90	.92	.93	.95	.97	.97
MET+MACH	.27	.30	.33	.37	.42	.46	.52
PETRO+MET	1.25	1.27	1.30	1.35	1.38	1.43	1.46
L D TRANS	.36	.37	.40	.42	.45	.47	.50
WHOL TRAD	1.14	1.23	1.32	1.41	1.49	1.58	1.66
NT FIN+IN	.12	.12	.14	.13	.15	.16	.16
INST SERV	1.19	1.10	1.01	.94	.86	.79	.73
F+S GOV	2.46	2.47	2.47	2.44	2.42	2.39	2.37
ALL BASIC	1.41	1.40	1.38	1.35	1.31	1.27	1.23
CONSTR	1.13	1.28	1.44	1.61	1.80	2.00	2.23
L TR+CM+U	1.32	1.41	1.49	1.57	1.66	1.76	1.85
RETAIL TR	1.31	1.44	1.57	1.71	1.87	2.03	2.21
LOC FIRE	.77	.88	1.00	1.14	1.29	1.45	1.65
LOC SERV	1.70	1.77	1.85	1.93	2.00	2.07	2.13
LOC GOV	1.34	1.47	1.61	1.75	1.91	2.07	2.25
ALL POPSRV	1.37	1.48	1.60	1.72	1.85	1.99	2.13
TOTAL EMPL	1.39	1.44	1.50	1.55	1.61	1.67	1.74

[illegible]

Fig. 3.4 **BASIC EMPLOYMENT TRENDS**
NAPA COUNTY



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
 - - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.11
EMPLOYMENT GROWTH ANALYSIS
NAPA COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Fast	n.a.
MINING	Very Slow	1.30
NEW TECH	Fast	.39
CENTR URB	Slow	.47
DECENTR	Average	n.a.
MET, MACH	Very Fast	.82
PETRO, MET	Fast	2.30
L D TRANS	Fast	1.23
WHOL TRANS	Fast	3.59
NT FIN, IN	Fast	.27
INST SERV	Very Slow	.33
F. S. GOV	Average	1.98
ALL BASIC	Average	.88
ALL POPSRV	Fast	3.15
TOTAL EMP	Fast	2.30

Table 3.12: NAPA COUNTY

	PROJECTIONS OF NAPA EMPLOYMENT FOR 2000												
	EMPLOYMENT (THOUSANDS)			SHARE INCR. OF TOT. INCR.		PERCENT SHARE OF REG. TOT. FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE (PCT/YR)		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.	(PCT)	1970-*	1970	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
TOTAL	27.39	56.29	28.90	100.00	105.51	1.39	1.74	100.00	100.00	3.94	2.43	.26	.76
BASIC	13.20	17.31	4.11	14.22	31.14	1.41	1.23	48.19	30.75	1.51	.91	-1.35	-.45
POP-SERV	14.19	38.98	24.79	85.78	174.70	1.37	2.13	51.81	69.25	5.46	3.43	.79	1.50
AG-FO-FSH	3.52	3.62	.10	.35	2.84	9.31	12.70	12.85	6.43	-2.45	.09	-3.50	1.04
MINING	.02	.01	-.01	-.03	-50.00	.54	.34	.07	.02	0.	-2.28	-.47	-1.53
NEW TECH	.25	.63	.38	1.31	152.00	.29	.34	.91	1.12	7.12	3.13	-.02	.58
CENTR URB	.85	.97	.12	.42	14.12	1.86	1.36	3.10	1.72	1.25	.44	-.42	-1.03
DECENTR	.90	.97	.07	.24	7.78	.88	.97	3.29	1.72	.69	.25	.50	.33
MET-MACH	.21	.73	.52	1.80	247.62	.27	.52	.77	1.30	7.77	4.24	4.55	2.20
PETRO-MET	.54	.79	.25	.87	46.30	1.25	1.46	1.97	1.40	5.09	1.28	3.80	.52
L D TRANS	.29	.48	.19	.66	65.52	.36	.50	1.06	.85	3.82	1.69	1.20	1.11
WHOL TRAD	1.38	2.55	1.17	4.05	84.78	1.14	1.66	5.04	4.53	3.76	2.07	1.69	1.26
NT FIN.IN	.05	.09	.04	.14	80.00	.12	.16	.18	.16	9.55	1.98	6.29	.96
INST SERV	1.89	2.50	.61	2.11	32.28	1.19	.73	6.90	4.44	4.30	.94	-3.27	-1.64
F.S GOV	3.30	3.97	.67	2.32	20.30	2.46	2.37	12.05	7.05	3.80	.62	.61	-.13
CONSTR	1.15	4.20	3.05	10.55	265.22	1.13	2.23	4.20	7.46	2.31	4.41	1.07	2.28
L TRCMU	.93	2.11	1.18	4.08	126.88	1.32	1.85	3.40	3.75	4.77	2.77	.71	1.12
RETAIL TR	3.91	11.03	7.12	24.64	182.10	1.31	2.21	14.28	19.59	5.07	3.52	.73	1.74
LOC FIRE	.67	2.14	1.47	5.09	219.40	.77	1.65	2.45	3.80	5.53	3.95	.72	2.58
LOC SERV	5.02	11.51	6.49	22.46	129.28	1.70	2.13	18.33	20.45	5.84	2.80	.78	.76
LOC GOV	2.51	7.99	5.48	18.96	218.33	1.34	2.25	9.16	14.19	6.25	3.94	-.44	1.74

*2000

3.5 San Francisco

San Francisco is projected to have the lowest employment growth rate of the nine counties in the next thirty years. Its projected yearly growth rate of .6 percent a year, less than half of the regional rate, reflects trends that occurred in the 1960's. San Francisco's share of the Region's total employment drops from 26 percent in 1970 to 17 percent in the year 2000.

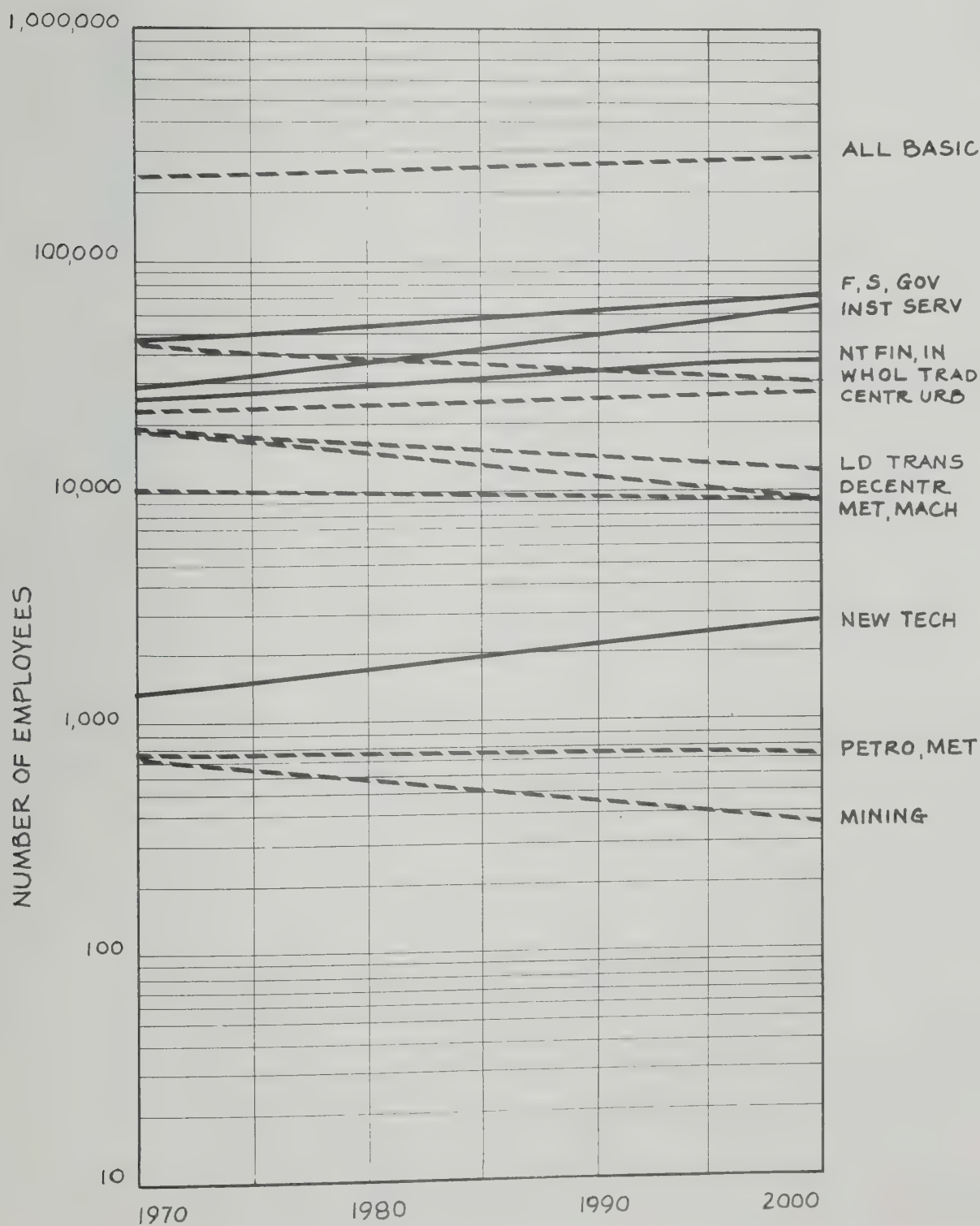
The industries that are projected to decline in San Francisco are industries that are primarily non-office and have relatively high space requirements such as metal fabrication and machinery, decentralized industry, wholesale trade, and transportation. Decentralized industry is the biggest decliner, decreasing in employment by 52 percent between 1970 and 2000. San Francisco's share of the Region's decentralized industry employment decreases from 18 percent in 1970 to 9 percent in 2000. The percentage decline for transportation is 36 percent, while that for wholesale trade is 29 percent; metal fabrication and machinery realizes a decline of 23 percent in the projection period. San Francisco's share of the regional employment in each of these industries declines substantially by the year 2000.

San Francisco is expected to remain an important center for finance and insurance, although it is projected to grow at a slower rate than the Region in this type of employment. The city is projected to have 61 percent of the Region's national finance and insurance employment and 38 percent of the Region's local finance, insurance and real estate employment by the year 2000. In 1970 San Francisco had 66 percent of the Region's national finance and insurance employment and 47 percent of the Region's local

finance, insurance and real estate employment. Projected increase in office space in downtown San Francisco and the development of BART are reasons for San Francisco's continued important role in finance, insurance, and real estate.

[illegible]

Fig. 3.5 BASIC EMPLOYMENT TRENDS
SAN FRANCISCO



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
 - - - - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.14
EMPLOYMENT GROWTH ANALYSIS
SAN FRANCISCO: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	None in San Francisco	
MINING	Slow	36.36
NEW TECH	Average	1.31
CENTR URB	Slow	11.16
DECENTR	Very Slow	388.98
MET, MACH	Very Slow	n.a.
PETRO, MET	Slow	3.50
L D TRANS	Very Slow	n.a.
WHOL TRAD	Very Slow	n.a.
NT FIN, IN	Average	46.20
INST SERV	Slow	11.80
F.S. GOV	Average	34.68
ALL BASIC	Slow	2.66
ALL POPSRV	Slow	10.18
TOTAL EMP	Slow	7.38

Table 3:15: SAN FRANCISCO

PROJECTIONS OF SAN FRNCISO EMPLOYMENT FOR 2000

	EMPLOYMENT (THOUSANDS)			SHARE INCR OF TOT. INCR (PCT)	PERCENT GROWTH 1970-*, (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ----(PCT/YR)----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.			1970	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
TOTAL	515.23	607.90	92.67	100.00	17.99	26.10	18.82	100.00	100.00	1.53	.55	-2.06	-1.08
BASIC	238.94	251.39	12.45	13.43	5.21	25.56	17.92	46.38	41.35	.76	.17	-2.08	-1.18
POP-SERV	276.29	356.51	80.22	86.57	29.03	26.59	19.52	53.62	58.65	2.37	.85	-2.15	-1.03
AG,FR,FSH	.00	.00	0.	0.	0.	.00	.00	.00	.00	0.	0.	-1.07	.95
MINING	.76	.48	-.28	-.30	-36.84	20.43	16.27	.15	.08	0.	-1.52	-.47	-.76
NEW TECH.	1.43	2.72	1.29	1.39	90.21	1.63	1.46	.28	.45	-2.18	2.17	-8.70	-.36
CENTR URB	20.69	23.53	2.84	3.06	13.73	45.31	33.09	4.02	3.87	-.25	.43	-1.90	-1.04
DECENTR.	18.96	9.08	-9.88	-10.66	-52.11	18.51	9.09	3.68	1.49	-2.42	-2.42	-2.60	-2.34
MET,MACH	10.56	8.10	-2.46	-2.65	-23.30	13.49	5.72	2.05	1.33	-2.64	-.88	-5.55	-2.82
PETRO,MET	7.25	7.63	.38	.41	5.24	16.77	14.11	1.41	1.26	.36	.17	-.88	-.58
L D TRANS	21.83	13.91	-7.92	-8.55	-36.28	26.82	14.36	4.24	2.29	-.55	-1.49	-3.07	-2.06
WHOL TRAN	41.23	29.29	-11.94	-12.88	-28.96	34.19	19.12	8.00	4.82	-1.12	-1.13	-3.08	-1.92
NT FIN,IN	27.15	33.90	6.75	7.28	24.86	65.63	60.56	5.27	5.58	2.75	.74	-.31	-.27
INST. SERV	40.42	62.37	21.95	23.69	54.30	25.46	18.09	7.85	10.26	5.69	1.46	-1.98	-1.13
F+S GOV	48.66	60.38	11.72	12.65	24.09	36.31	35.99	9.44	9.93	2.10	.72	-1.04	-.03
CONSTR	22.00	28.90	6.90	7.45	31.36	21.69	15.33	4.27	4.75	.96	.91	-.27	-1.15
L TP,CH,U	30.56	40.25	9.69	10.46	31.71	43.44	35.26	5.93	6.62	3.10	.92	-.90	-.69
RETAIL TR	64.40	82.01	17.61	19.00	27.34	21.65	16.40	12.50	13.49	.91	.81	-3.26	-.92
LOC FIRE	40.63	49.43	8.80	9.50	21.66	46.51	38.09	7.89	8.13	3.81	.66	-.92	-.66
LOC SERV	84.54	102.44	17.90	19.32	21.17	28.62	18.99	16.41	16.85	2.23	.64	-2.66	-1.36
LOC GOV	34.16	53.48	19.32	20.85	56.56	18.25	15.07	6.63	8.80	4.34	1.51	-2.23	-.64

*2000

3.6 San Mateo County

San Mateo County is expected to experience relatively slow employment growth in the projection period. Between 1970 and 2000 its employment is expected to increase by 56 percent, compared to an increase of 64 percent for the nine county Region. Basic industries are projected to increase at a faster rate than population-serving industries, accounting for 58 percent of the county's total employment growth. This is in contrast to the regional trend.

New technology is expected to play an increasingly important role in San Mateo's economy. In the projection period, employment in this industry is expected to increase by 246 percent. By the year 2000 San Mateo is projected to have 21 percent of the Region's new technology employment. San Mateo's growth in this industry is expected to result from its geographic proximity to the concentration of new technology in Santa Clara County.

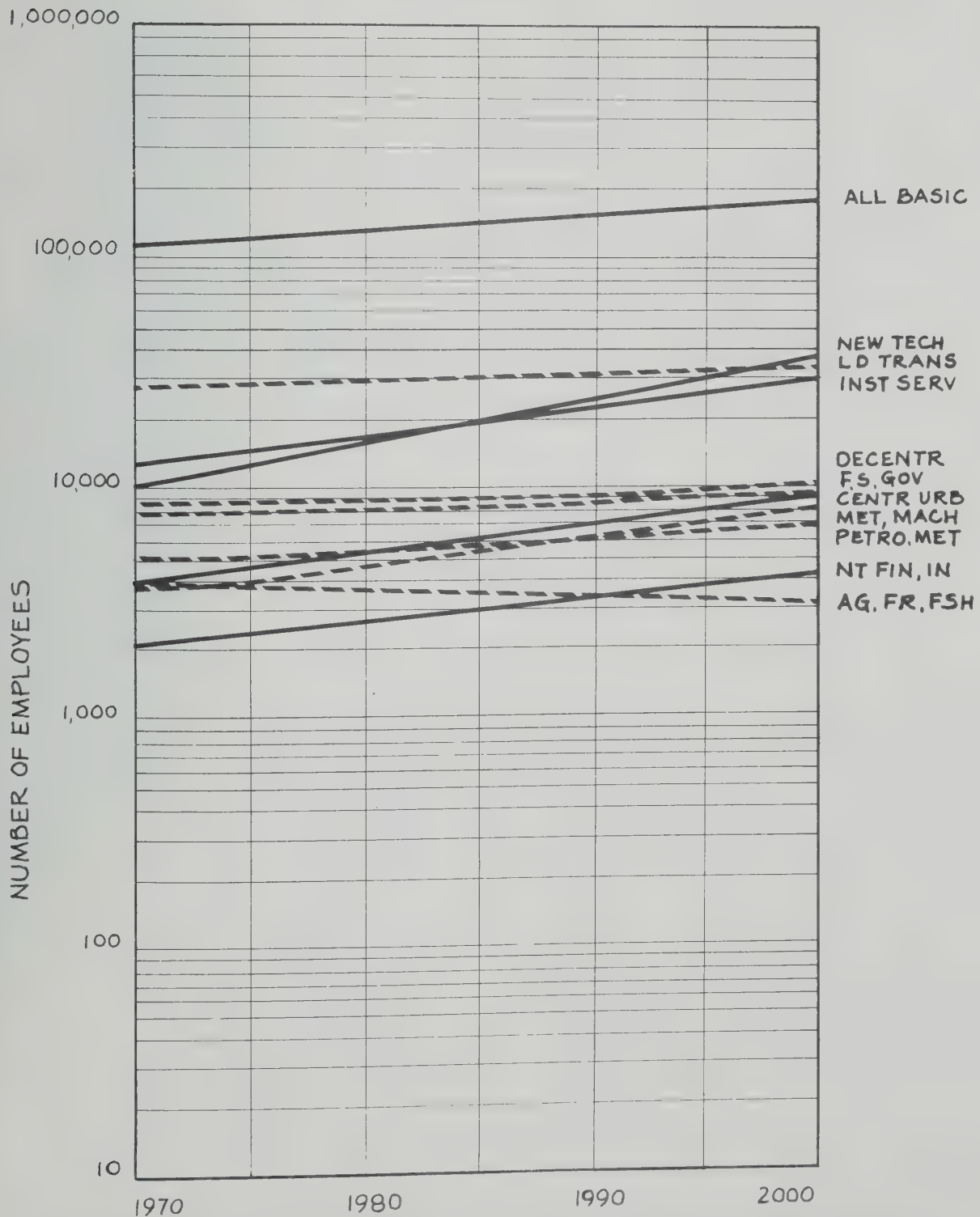
Due to the location of San Francisco Airport in the county, San Mateo is expected to remain a major center for transportation employment. San Mateo is projected to have 33 percent of the Region's transportation employment in the year 2000, the same percentage it had in 1970. The annual rate of growth for transportation in the county is .5 percent, reflecting the low regional growth rate for transportation.

San Mateo also remains an important center for wholesale trade as a result of the location of the airport. In 2000 San Mateo is projected to have 18 percent of the Region's wholesale trade employment. This industry is projected to account for 8 percent of San Mateo's total employment. The annual growth rate for wholesale trade employment in San Mateo is 1

percent.

San Mateo shows relatively high growth rates in basic services and centralized urban manufacturing, reflecting high regional growth rates in these industries, outside of San Francisco. In the projection period institutional services is projected to grow at an annual rate of 3.0 percent and centralized urban industry is expected to grow at an annual rate of 2.4 percent.

Fig. 3.6 BASIC EMPLOYMENT TRENDS
SAN MATEO COUNTY



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
 - - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.17
EMPLOYMENT GROWTH ANALYSIS
SAN MATEO COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Average	10.52
MINING	None in San Mateo County	
NEW TECH	Very Fast	28.00
CENTR URB	Fast	19.80
DECENTR	Fast	n.a.
MET, MACH	Slow	3.31
PETRO, MET	Average	14.09
L D TRANS	Average	29.86
WHOL TRAD	Average	22.59
NT FIN, IN	Fast	14.17
INST SERV	Average	10.65
F, S, GOV	Average	4.59
ALL BASIC	Average	15.39
ALL POPSRV	Slow	6.73
TOTAL EMP	Average	9.95

ERRATA SHEET

<u>PAGE</u>	<u>LINE</u>	<u>READS</u>	<u>SHOULD READ</u>
77		Line on graph shows Mining Employment declining from 20 to 15.	Line should show Mining Employment declining from 260 to 170.
A-71	6	"...Region are made by the BEMOD and PLUM allocation models..."	"...Region made by the BEMOD and PLUM allocation models..."
A-71	20,21	"...night-time population and day-time projected by the Department of Finance population in the Region."	"...night-time population projected by the Department of Finance and the day-time basic employment of these projections."

Table 3.18: SAN MATEO COUNTY

PROJECTIONS OF SAN MATEO EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCR	GROWTH	FOR INDUSTRY (PCT)	EMPLOYMENT (PCT)	1970	2000	1960-69	1970-*	1960-69	1970-*
TOTAL	225.02	349.98	124.96	100.00	55.53	11.40	10.84	100.00	100.00	4.68	1.48	.97	-.17
BASIC	109.08	181.04	71.96	57.59	65.97	11.67	12.91	48.48	51.73	4.28	1.70	1.34	.34
POP-SFRV	115.94	168.94	53.00	42.41	45.71	11.16	9.25	51.52	48.27	5.26	1.26	.61	-.62
AG.FR.FSH	4.15	3.17	-.98	-.78	-23.61	10.97	11.12	1.84	.91	1.37	-.89	.28	.05
MINING	.00	.00	0.	0.	0.	.00	.00	.00	.00	-53.58	0.	-53.80	.78
NEW TECH	11.18	38.65	27.47	21.98	245.71	12.77	20.81	4.97	11.04	3.22	4.22	-3.66	1.64
CENTR URB	4.75	9.79	5.04	4.03	106.11	10.40	13.77	2.11	2.80	7.75	2.44	5.97	.94
DECENTR	7.59	8.99	1.40	1.12	18.45	7.41	9.00	3.37	2.57	2.30	.57	2.11	.65
MET.MACH	5.07	7.17	2.10	1.68	41.42	6.48	5.06	2.25	2.05	.96	1.16	-2.06	-.82
PETRO.MET	5.65	7.18	1.53	1.22	27.08	13.07	13.27	2.51	2.05	3.62	.80	2.34	.05
L D TRANS	27.49	32.10	4.61	3.69	16.77	33.77	33.15	12.22	9.17	7.81	.52	5.08	-.06
WHOL. TRAD	19.47	26.83	7.36	5.89	37.80	16.15	17.52	8.65	7.67	9.32	1.07	7.14	.27
NT FIN. IN	2.18	4.25	2.07	1.66	94.95	5.27	7.59	.97	1.21	7.07	2.25	3.88	1.22
INST SERV	13.98	33.79	19.81	15.85	141.70	8.81	9.80	6.21	9.65	8.81	2.99	.91	.36
F.S GOV	7.57	9.12	1.55	1.24	20.48	5.65	5.44	3.36	2.61	6.90	.62	3.61	-.13
CONSTR	13.75	18.16	4.41	3.53	32.07	13.55	9.63	6.11	5.19	.54	.93	-.68	-1.13
L TR. CM. U	5.44	9.10	3.66	2.93	67.28	7.73	7.97	2.42	2.60	4.40	1.73	.35	.10
RETAIL TR	34.40	47.53	13.13	10.51	38.17	11.57	9.51	15.29	13.58	6.39	1.08	1.99	-.65
LOC FIRE	7.48	10.26	2.78	2.22	37.17	8.56	7.91	3.32	2.93	6.81	1.06	1.94	-.27
LOC SERV	31.92	49.55	17.63	14.11	55.23	10.80	9.18	14.19	14.16	5.69	1.48	.64	-.54
LOC GOV	22.95	34.34	11.39	9.11	49.63	12.26	9.68	10.20	9.81	6.58	1.35	.13	-.79

*2000

3.7 Santa Clara County

Employment in Santa Clara County is expected to grow from a 1970 base of 418,000 to about 824,000 in the year 2000. This trend reflects an increase of more than 406,000 workers or 97 percent over the thirty year period. This rate is significantly greater than the projected regional rate of employment growth. However, the rapid buildup in employment experienced in the 1960's as a result of aerospace and related growth in the county has been slowed down in these forecasts.

Santa Clara is expected to continue to have the bulk of the Region's new technology employment by the end of the projection period, but its share is expected to decline. In 1970 the county had 77 percent of the Region's employment in this industry, and in the year 2000 it is projected to have 63 percent. Santa Clara's projected yearly growth rate in new technology is 1.9 percent, the lowest among the counties in the Region.

Local services is projected to be the fastest growing industry in Santa Clara, increasing at the rate of 3.3 percent a year. By the year 2000, 25 percent of the Region's total local services employment is expected to be located in Santa Clara. Growth in local services reflects the county's population and overall economic growth. Santa Clara is also projected to grow rapidly in other population-serving industries, especially local government, construction and retail trade.

The fastest growing basic industries in Santa Clara are institutional services, which increases by 142 percent between 1970 and 2000, and centralized urban manufacturing which increases by 106 percent during the

same period. Santa Clara's rapid growth in these industries reflects the region's rapid growth, outside of San Francisco, in these industries.

The only industries which are projected to decline in Santa Clara are agriculture, forestry, and fisheries, decentralized industry, and mining. The category of agriculture, forestry and fisheries experiences the biggest decline, decreasing in employment by 44 percent between 1970 and 2000. This trend reflects the continuing urbanization of agricultural lands in the county. Despite the decline, however, Santa Clara is projected to account for 21 percent of the region's agricultural, forestry and fisheries' employment by the year 2000.

	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	10.58	9.74	8.81	7.94	7.17	6.54	5.96
MINING	.26	.22	.19	.19	.18	.17	.17
NEW TECH	67.23	75.04	84.16	91.22	98.59	107.33	116.41
CENTR URB	7.28	8.38	9.61	10.68	11.85	13.34	15.00
DECENTR	25.62	24.67	23.60	23.20	22.84	22.68	22.49
MET,MACH	21.89	24.74	27.88	30.65	33.64	37.50	41.84
PETRO,MET	2.64	2.74	2.83	2.94	3.04	3.20	3.35
L D TRANS	5.74	6.01	6.29	6.84	7.46	8.25	9.09
WHOL TRAD	19.47	20.79	22.07	23.72	25.35	27.39	29.34
NT FIN,IN	3.74	3.87	4.04	4.24	4.35	4.92	5.41
INST SERV	44.26	50.98	59.09	68.26	79.11	92.16	106.99
F,S GOV	11.83	13.32	15.26	15.98	16.80	17.97	19.20
ALL BASIC	220.54	240.50	263.83	285.86	310.52	341.45	375.25
CONSTR	22.67	27.14	32.25	35.86	39.88	44.52	49.78
L TR,CM,U	10.23	11.07	12.02	13.23	14.56	16.29	18.16
RETAIL TR	62.41	70.18	78.14	87.98	98.65	113.07	129.93
LOC FIRE	12.68	13.45	14.24	15.65	17.20	18.95	20.80
LOC SERV	52.03	63.01	75.17	84.36	98.40	115.77	136.09
LOC GOV	37.91	44.25	50.91	58.80	67.89	80.19	94.33
ALL POPSRV	197.93	229.10	262.73	295.88	336.58	388.79	449.09
TOTAL EMPL	418.47	469.60	526.56	581.74	647.10	730.24	824.34

SANTA CLARA SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
AG,FR,FSH	27.97	26.75	25.56	24.35	23.18	22.04	20.91
MINING	6.99	6.53	6.25	6.21	6.02	5.70	5.76
NEW TECH	76.76	74.70	72.52	70.21	67.81	65.29	62.49
CENTR URB	15.94	16.79	17.64	18.49	19.36	20.22	21.09
DECENTR	25.01	24.74	24.40	24.00	23.55	23.05	22.51
MET,MACH	27.96	28.43	28.81	29.12	29.33	29.47	29.54
PETRO,MET	6.11	6.13	6.15	6.18	6.18	6.19	6.19
L D TRANS	7.05	7.46	7.86	8.25	8.64	9.02	9.39
WHOL TRAD	16.15	16.77	17.35	17.88	18.36	18.79	19.16
NT FIN,IN	9.04	9.15	9.26	9.37	9.46	9.57	9.66
INST SERV	27.88	28.46	29.02	29.55	30.06	30.56	31.08
F,S GOV	8.83	9.30	9.78	10.17	10.57	11.00	11.44
ALL BASIC	23.59	24.27	24.93	25.48	25.98	26.39	26.76
CONSTR	22.35	23.12	23.87	24.58	25.25	25.86	26.41
L TR,CM,U	14.54	14.82	15.08	15.32	15.54	15.74	15.91
RETAIL TR	20.98	21.82	22.66	23.50	24.34	25.17	25.99
LOC FIRE	14.52	14.83	15.12	15.38	15.62	15.84	16.03
LOC SERV	17.61	18.82	20.06	21.32	22.61	23.91	25.23
LOC GOV	20.26	21.28	22.33	23.39	24.45	25.52	26.58
ALL POPSRV	19.05	19.97	20.91	21.83	22.74	23.66	24.58
TOTAL EMPL	21.20	21.98	22.75	23.48	24.19	24.86	25.53

SANTA CLARA INDUSTRY STRUCTURE (PERCENT)							
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	2.53	2.07	1.67	1.36	1.11	.90	.72
MINING	.06	.05	.04	.03	.03	.02	.02
NEW TECH	16.07	15.98	15.98	15.68	15.24	14.70	14.12
CENTR URB	1.74	1.78	1.83	1.84	1.83	1.83	1.82
DECENTR	6.12	5.25	4.48	3.99	3.53	3.11	2.73
MET,MACH	5.23	5.27	5.29	5.27	5.20	5.14	5.08
PETRO,MET	.63	.58	.54	.51	.47	.44	.41
L D TRANS	1.37	1.28	1.19	1.18	1.15	1.13	1.10
WHOL TRAD	4.65	4.43	4.19	4.08	3.92	3.75	3.56
NT FIN,IN	.89	.82	.77	.73	.69	.67	.66
INST SERV	10.58	10.86	11.22	11.73	12.23	12.62	12.98
F,S GOV	2.83	2.84	2.90	2.75	2.60	2.46	2.33
ALL BASIC	52.70	51.21	50.10	49.14	47.99	46.76	45.52
CONSTR	5.42	5.78	6.12	6.16	6.16	6.10	6.04
L TR,CM,U	2.44	2.36	2.28	2.27	2.25	2.23	2.20
RETAIL TR	14.91	14.94	14.84	15.12	15.24	15.48	15.76
LOC FIRE	3.03	2.86	2.70	2.69	2.66	2.60	2.52
LOC SERV	12.43	13.42	14.28	14.50	15.21	15.85	16.51
LOC GOV	9.06	9.42	9.67	10.11	10.49	10.98	11.44
ALL POPSRV	47.30	48.79	49.90	50.86	52.01	53.24	54.48
TOTAL EMPL	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Fig. 3.7 BASIC EMPLOYMENT TRENDS
SANTA CLARA COUNTY

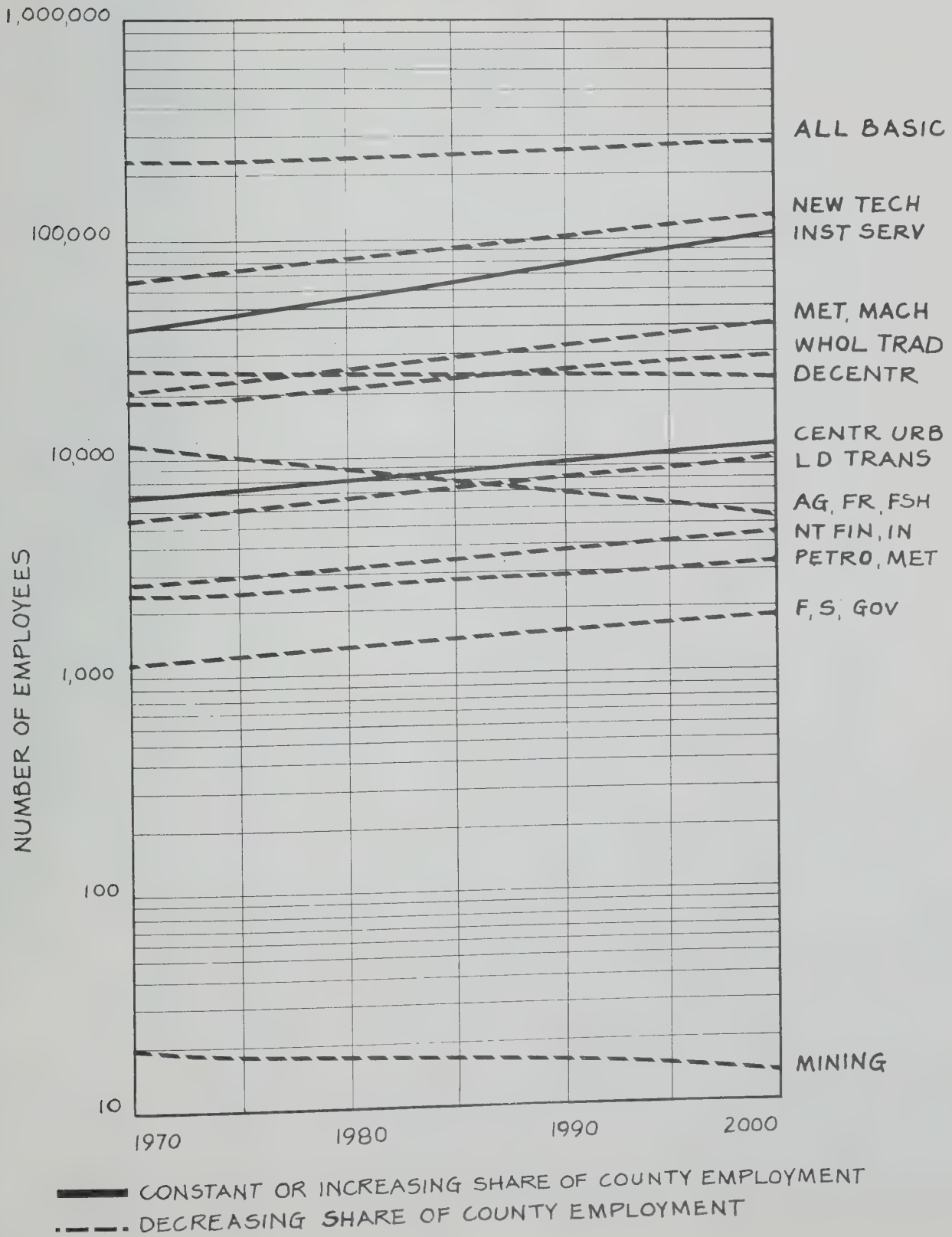


TABLE 3.20
EMPLOYMENT GROWTH ANALYSIS
SANTA CLARA COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Slow	49.57
MINING	Slow	11.69
NEW TECH	Slow	50.12
CENTR URB	Fast	30.33
DECENTR	Average	123.23
MET, MACH	Average	31.48
PETRO, MET	Average	6.54
L D TRANS	Fast	21.70
WHOL TRAD	Fast	30.29
NT FIN, IN	Average	11.43
INST SERV	Average	33.72
F, S, GOV	Fast	21.81
ALL BASIC	Average	33.08
ALL POPSRV	Fast	31.89
TOTAL EMP	Fast	32.33

ABAG/MTC/DOM Employment Projections
Series C.2: Target Year Specific - Geographic Units

Table 3.21: SANTA CLARA COUNTY

PROJECTIONS OF SANTA CLARA EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCR	GROWTH	FOR INDUSTRY (PCT)	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
TOTAL	418.47	824.34	405.87	100.00	96.99	21.20	25.53	100.00	100.00	7.00	2.29	3.21	.62
BASIC	220.54	375.25	154.71	38.12	70.15	23.59	26.76	52.70	45.52	6.57	1.79	3.57	.42
POP-SERV	197.93	449.09	251.16	61.88	126.89	19.05	24.58	47.30	54.48	7.51	2.77	2.76	.85
AG, FP, FSH	10.58	5.96	-4.62	-1.14	-43.67	27.97	20.91	2.53	.72	-4.79	-1.89	-5.81	-.97
MINING	.26	.17	-.09	-.02	-34.62	6.99	5.76	.06	.02	0.	-1.41	-.47	-.64
NEW TECH	67.23	116.41	49.18	12.12	73.15	76.76	62.69	16.07	14.12	8.37	1.85	1.15	-.67
CENTR URB	7.28	15.00	7.72	1.90	106.04	15.94	21.09	1.74	1.82	6.27	2.44	4.51	.94
DECENTR	25.62	22.49	-3.13	-.77	-12.22	25.01	22.51	6.12	2.73	2.40	-.43	2.21	-.35
MET, MACH	21.89	41.84	19.95	4.92	91.14	27.96	29.54	5.23	5.08	8.28	2.18	5.05	.18
PETRO, MET	2.64	3.35	.71	.17	26.89	6.11	6.19	.63	.41	6.93	.80	5.61	.05
L D TRANS	5.74	9.09	3.35	.83	58.36	7.05	9.39	1.37	1.10	3.63	1.54	1.01	.96
WHOL TRAD	19.47	29.34	9.87	2.43	50.69	16.15	19.16	4.65	3.56	8.02	1.38	5.87	.57
NT FIN, IN	3.74	5.41	1.67	.41	44.65	9.04	9.66	.89	.66	5.16	1.24	2.03	.22
INST SERV	44.26	106.99	62.73	15.46	141.73	27.88	31.03	10.58	12.98	10.95	2.99	2.90	.36
F, S GOV	11.83	19.20	7.37	1.82	62.30	8.83	11.44	2.83	2.33	5.50	1.63	2.25	.87
CONSTR	22.67	49.78	27.11	6.68	119.59	22.35	26.41	5.42	6.04	2.47	2.66	1.22	.56
L TR, CM, U	10.23	18.16	7.93	1.95	77.52	14.54	15.91	2.44	2.20	7.96	1.93	3.77	.30
RETAIL TR	62.41	129.93	67.52	16.64	108.19	20.98	25.99	14.91	15.76	7.60	2.47	3.15	.72
LOC FIRE	12.68	20.80	8.12	2.00	64.04	14.52	16.03	3.03	2.52	7.63	1.66	2.72	.33
LOC SERV	52.03	136.09	84.06	20.71	161.56	17.61	25.23	12.43	16.51	8.04	3.26	2.87	1.20
LOC GOV	37.91	94.33	56.42	13.90	148.83	20.26	26.58	9.06	11.44	9.76	3.09	2.85	.91

*2000

3.8 Solano County

Solano County is expected to have the second highest growth rate in employment in the Region between 1970 and the year 2000. During this period, employment is expected to increase from more than 57,000 to about 118,000. This trend reflects an increase of almost 61,000 workers or 105 percent compared to 64 percent for the region. Because of its relatively low employment base in 1970, however, this county accounts for less than 4 percent of all regional employment in the year 2000.

Solano's industry structure reflects a significantly higher proportion of population-serving industries and a lower proportion of basic industries in the year 2000 as compared to 1970. For example, in 1970 population-serving industries employed 49 percent of total county workers, whereas basic industries accounted for the remaining 51 percent. In the year 2000 population-serving employment is expected to represent a significantly high 72 percent of total county employment, with basic employment accounting for only 28 percent.

This trend is reflected in the growth patterns projected for these two industry categories between 1970 and 2000. During this period, population-serving employment is expected to grow by 198 percent compared to 76 percent in the Region, while basic employment is expected to experience a low growth of 14 percent compared to 50 percent in the Region. All six population-serving categories are expected to increase their share of county employment by the year 2000, whereas most of the basic industry groups are expected to assume less important roles in the county's industry structure.

Petrochemicals and primary metals, construction, local finance, insurance and real estate, and local government are expected to be the county's fastest growing industries between 1970 and 2000. These four industries will probably account for more than 26 percent of county employment in the year 2000.

The three largest industries in Solano County in 1970 were federal and state government, retail trade, and local services. Employment in federal and state government will probably account for a decreasing share of total county employment between 1970 and 2000, representing a small decrease in absolute employment in this category. Retail trade and local services will assume more important roles in the county structure during the same period. Collectively these three industries are expected to account for more than 55 percent of all County employment in the year 2000.

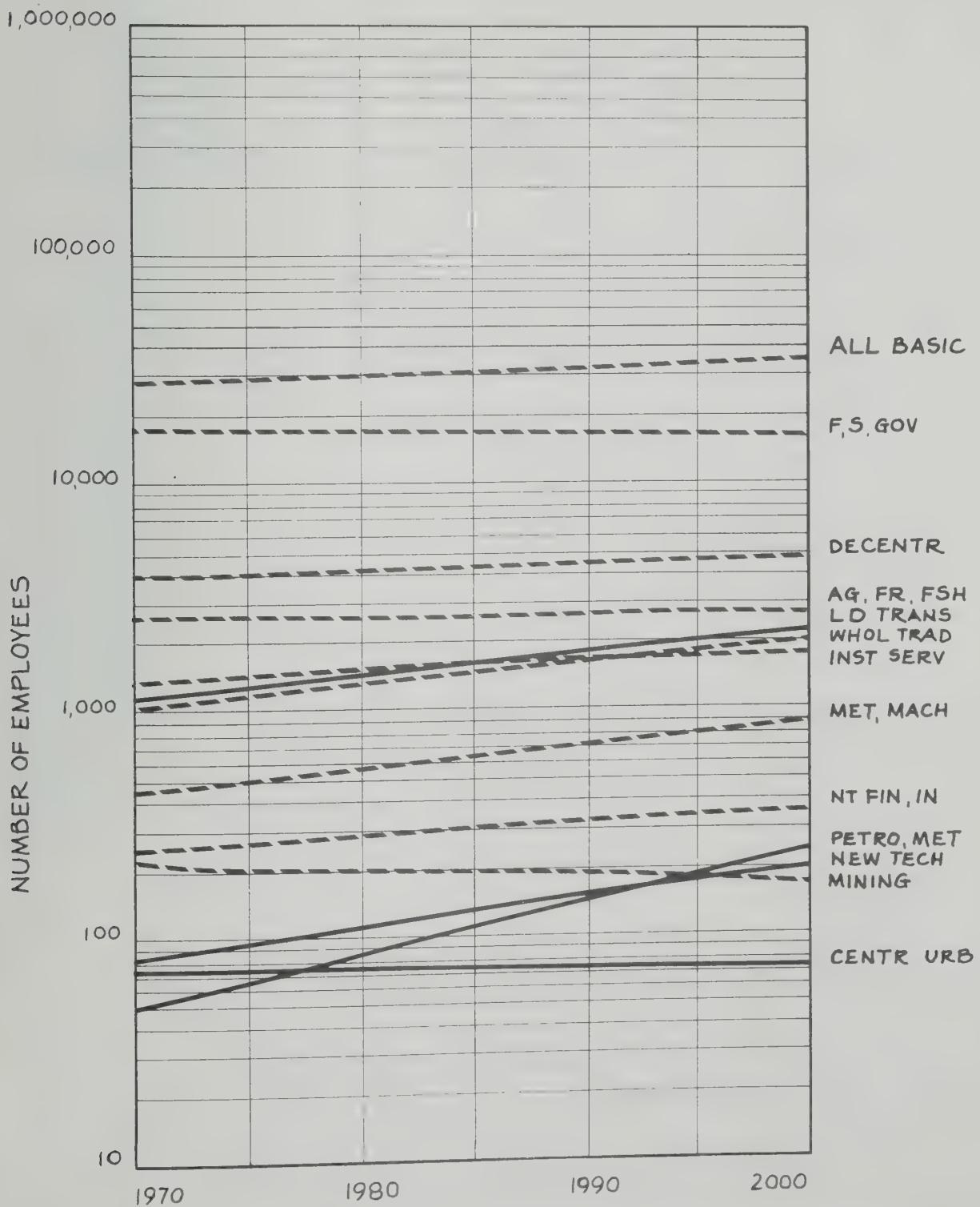
Solano's share of regional employment is expected to increase in all industry groups between 1970 and 2000, with the exception of national finance and insurance, institutional services, and federal and state government.

	SOLANO		EMPLOYMENT (THOUSANDS)				
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	2.69	2.74	2.74	2.73	2.72	2.75	2.77
MINING	.22	.19	.17	.18	.18	.19	.19
NEW TECH	.08	.10	.11	.13	.15	.18	.20
CENTR URB	.41	.47	.54	.60	.66	.75	.84
DECENTR	4.01	4.06	4.08	4.21	4.36	4.55	4.74
MET,MACH	.44	.50	.56	.62	.68	.76	.85
PETRO,MET	.05	.07	.10	.12	.15	.18	.23
L D TRANS	1.11	1.22	1.34	1.54	1.76	2.04	2.36
WHOL TRAD	1.13	1.27	1.42	1.60	1.80	2.04	2.30
NT FIN,IN	.26	.26	.26	.27	.28	.30	.32
INST SERV	1.44	1.50	1.58	1.65	1.73	1.82	1.91
F.S GOV	17.48	17.37	17.56	17.22	16.98	16.85	16.71
ALL BASIC	29.32	29.75	30.46	30.87	31.45	32.41	33.42
CONSTR	1.90	2.59	3.50	4.43	5.60	7.12	9.06
L TR,CM,U	1.65	1.92	2.24	2.66	3.16	3.81	4.57
RETAIL TR	9.27	10.81	12.47	14.54	16.90	20.07	23.90
LOC FIRE	1.46	1.73	2.05	2.52	3.09	3.80	4.65
LOC SERV	9.21	11.23	13.48	15.23	17.87	21.16	25.04
LOC GOV	4.90	6.06	7.39	9.05	11.08	13.88	17.31
ALL POPSRV	28.39	34.34	41.13	48.43	57.70	69.84	84.53
TOTAL EMPL	57.71	64.09	71.59	79.30	89.15	102.25	117.95

	SOLANO		SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)				
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	7.11	7.53	7.95	8.37	8.79	9.27	9.72
MINING	5.91	5.64	5.59	5.88	6.02	6.38	6.44
NEW TECH	.09	.10	.09	.10	.10	.11	.11
CENTR URB	.90	.94	.99	1.04	1.08	1.14	1.18
DECENTR	3.91	4.07	4.22	4.36	4.50	4.62	4.75
MET,MACH	.56	.57	.58	.59	.59	.60	.60
PETRO,MET	.12	.16	.22	.25	.30	.35	.43
L D TRANS	1.36	1.51	1.68	1.86	2.04	2.23	2.44
WHOL TRAD	.94	1.02	1.12	1.21	1.30	1.40	1.50
NT FIN,IN	.63	.61	.60	.60	.60	.58	.57
INST SERV	.91	.84	.78	.71	.66	.60	.55
F.S GOV	13.04	12.12	11.25	10.96	10.69	10.32	9.96
ALL BASIC	3.14	3.00	2.88	2.75	2.63	2.50	2.38
CONSTR	1.87	2.21	2.59	3.04	3.55	4.13	4.81
L TR,CM,U	2.35	2.57	2.81	3.08	3.37	3.68	4.00
RETAIL TR	3.12	3.36	3.62	3.88	4.17	4.47	4.78
LOC FIRE	1.67	1.91	2.18	2.48	2.81	3.18	3.58
LOC SERV	3.12	3.35	3.60	3.85	4.11	4.37	4.64
LOC GOV	2.62	2.91	3.24	3.60	3.99	4.42	4.88
ALL POPSRV	2.73	2.99	3.27	3.57	3.90	4.25	4.63
TOTAL EMPL	2.92	3.00	3.09	3.20	3.33	3.48	3.65

	SOLANO		INDUSTRY STRUCTURE (PERCENT)				
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	4.66	4.28	3.83	3.44	3.05	2.69	2.35
MINING	.38	.30	.24	.23	.20	.19	.16
NEW TECH	.14	.16	.15	.16	.17	.18	.17
CENTR URB	.71	.73	.75	.76	.74	.73	.71
DECENTR	6.95	6.33	5.70	5.31	4.89	4.45	4.02
MET,MACH	.76	.78	.78	.78	.76	.74	.7

Fig. 3.8 BASIC EMPLOYMENT TRENDS
SOLANO COUNTY



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
- - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.23
EMPLOYMENT GROWTH ANALYSIS
SOLANO COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Fast	n.a.
MINING	Average	3.90
NEW TECH	Average	.12
CENTR URB	Fast	1.69
DECENTR	Fast	n.a.
MET, MACH	Average	.65
PETRO, MET	Very Fast	1.66
L D TRANS	Very Fast	8.10
WHOL TRAD	Very Fast	3.59
NT FIN, IN	Average	.41
INST SERV	Very Slow	.25
F, S, GOV	Slow	n.a.
ALL BASIC	Slow	.88
ALL POPSRV	Very Fast	7.13
TOTAL EMP	Fast	4.80

Table 3.24: SOLANO COUNTY

PROJECTIONS OF SOLANO EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCR	GROWTH	FOR INDUSTRY (PCT)	EMPLOYMENT (PCT)	1970	2000	1960-69 (PCT/YR)	1970-80	1960-69	1970-80
TOTAL	57.71	117.95	60.24	100.00	104.38	2.92	3.65	100.00	100.00	3.11	2.41	-.54	.74
BASIC	29.32	33.62	4.10	6.81	13.98	3.14	2.38	50.81	28.33	1.50	.44	-1.36	-.91
POP-SERV	28.39	84.53	56.14	93.19	197.75	2.73	4.63	49.19	71.67	5.32	3.70	.66	1.77
AG.FR.FSH	2.69	2.77	.08	.13	2.97	7.11	9.72	4.66	2.35	-2.72	.10	-3.76	1.05
MINING	.22	.19	-.03	-.05	-13.64	5.91	6.44	.38	.16	0.	-.49	-.47	.28
NEW TECH	.08	.20	.12	.20	150.00	.09	.11	.14	.17	1.62	3.10	-5.15	.55
CENTR URB	.41	.84	.43	.71	104.88	.90	1.18	.71	.71	6.44	2.42	4.69	.92
DECENTR	4.01	4.74	.73	1.21	18.20	3.91	4.75	6.95	4.02	6.16	.56	5.96	.64
MET.MACH	.44	.85	.41	.68	93.18	.56	.60	.76	.72	.08	2.22	-2.91	.22
PETRO.MET	.05	.23	.18	.30	360.00	.12	.43	.09	.19	41.26	5.22	39.52	4.44
L D TRANS	1.11	2.36	1.25	2.08	112.61	1.36	2.44	1.92	2.00	8.75	2.55	6.00	1.95
WHOL TRAD	1.13	2.30	1.17	1.94	103.54	.94	1.50	1.96	1.95	4.43	2.40	2.35	1.58
NT FIN.IN	.26	.32	.06	.10	23.08	.63	.57	.45	.27	.89	.69	-2.12	-.32
INST SERV	1.44	1.91	.47	.78	32.64	.91	.55	2.50	1.62	4.00	.95	-3.55	-1.63
F+S GOV	17.48	16.71	-.77	-1.28	-4.41	13.04	9.96	30.29	14.17	1.18	-.15	-1.94	-.90
CONSTR	1.90	9.06	7.16	11.89	376.84	1.87	4.81	3.29	7.68	1.93	5.34	.69	3.19
L TR.CM.U	1.65	4.57	2.92	4.85	176.97	2.35	4.00	2.86	3.87	4.01	3.45	-.02	1.80
RETAIL TR	9.27	23.90	14.63	24.29	157.82	3.12	4.78	16.06	20.26	4.59	3.21	.27	1.44
LOC FIRE	1.46	4.65	3.19	5.30	218.49	1.67	3.58	2.53	3.94	5.15	3.94	.36	2.57
LOC SERV	9.21	25.04	15.83	26.28	171.88	3.12	4.64	15.96	21.23	6.34	3.39	1.26	1.34
LOC GOV	4.90	17.31	12.41	20.60	253.27	2.62	4.88	8.49	14.68	6.67	4.30	-.05	2.10

*2000

3.9 Sonoma County

Employment in Sonoma County is expected to increase from approximately 67,000 in 1970 to more than 141,000 in the year 2000, reflecting an increase of 74,000 workers or 109 percent over the thirty year period. This county is expected to have the highest employment growth rate in the region but, because of its relatively low employment base in 1970, accounts for less than 5 percent of the Region's total employment in 2000. Compared to regional growth, Sonoma County's growth rate is significantly higher inasmuch as employment in the Region is expected to grow by 64 percent during the same period.

The county's industry structure reflects an increasing proportion of service and population-serving industries and a decreasing proportion of basic industries. For example, in 1970 population-serving employment accounted for 61 percent of the county's total employment, while basic employment made up the remaining 39 percent. In the year 2000 basic employment is expected to account for an even smaller share of total employment (31 percent), with population-serving industries representing 69 percent.

This trend is reflected in the growth patterns projected for these two industry categories between 1970 and 2000. During that period basic employment is expected to grow by 65 percent in Sonoma county compared to 50 percent in the Region; population-serving employment more than doubles, growing 138 percent compared to 76 percent in the Region. All six population-serving categories are expected to increase their share of county employment between 1970 and 2000, while seven of the twelve basic categories are to

decrease their share.

New technology, metal fabrication and machinery, and local transportation, communications and utilities are expected to be the county's fastest growing industries between 1970 and 2000. However, because of a minimal 1970 employment base and despite their high growth rate, these industries together will account for only 8 percent of the county's employment in the year 2000.

The three largest employing industries in Sonoma County in 1970 were retail trade, local services, and local government. Employment in these industries is expected to grow by 113 percent, 134 percent and 141 percent respectively by the year 2000. At that time they are expected to account for 54 percent of total employment in Sonoma County. This trend reinforces the population-serving nature of the county's industry structure.

In all industry groups Sonoma's share of the Region increases, with the exception of centralized urban. For this industry its share remains about the same between 1970 and 2000.

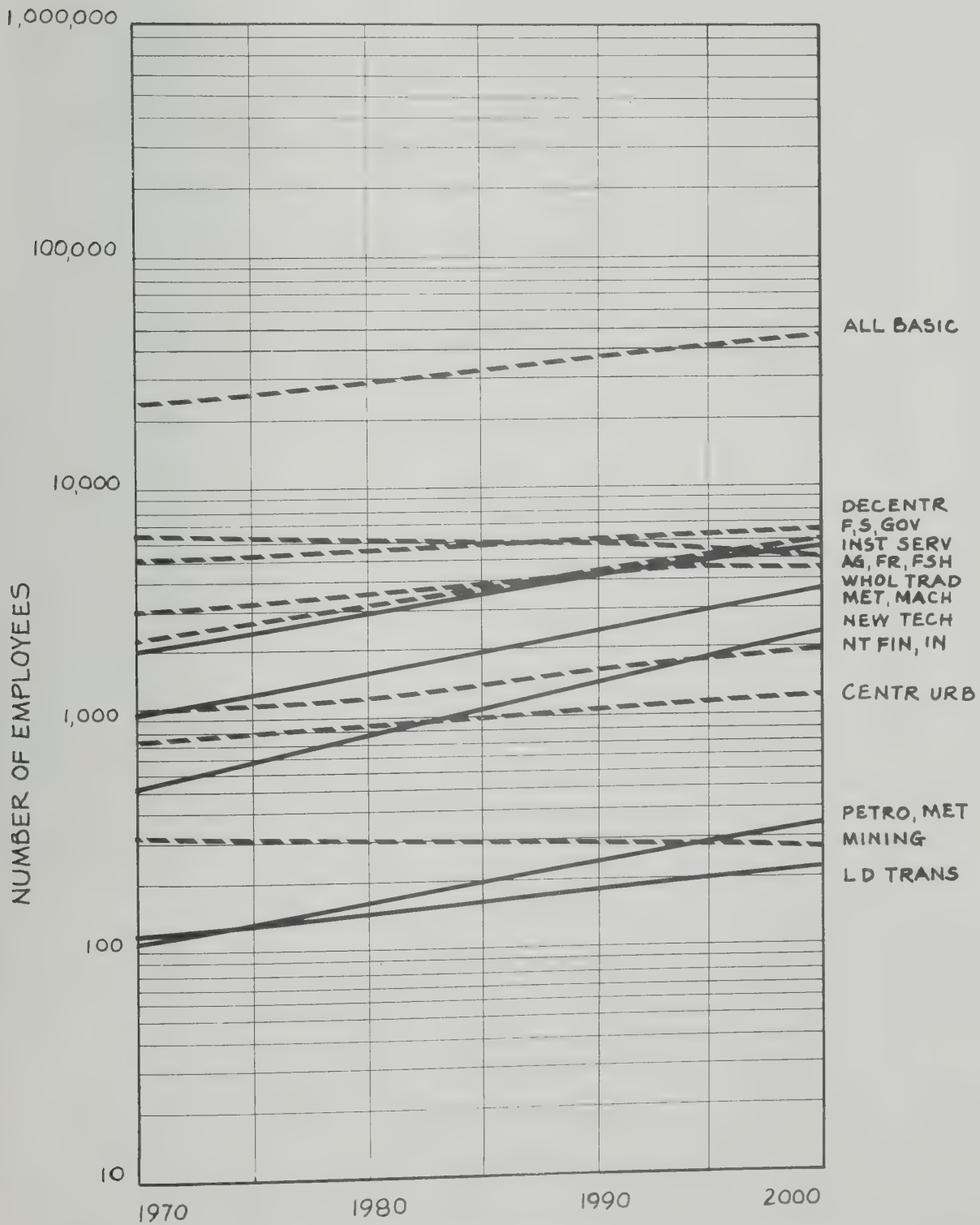
TABLE 3.25: SONOMA COUNTY

	SONOMA		EMPLOYMENT (THOUSANDS)				
	1970	1975	1980	1985	1990	1995	2000
AG,FR,FSH	6.70	6.66	6.49	6.32	6.15	6.05	5.95
MINING	.32	.31	.29	.30	.30	.30	.30
NEW TECH	.53	.71	.97	1.26	1.57	1.97	2.45
CENTR URR	.85	.93	1.02	1.08	1.14	1.22	1.31
DECFNTR	5.25	5.34	5.40	5.61	5.83	6.12	6.42
MET.MACH	1.04	1.31	1.63	1.98	2.40	2.97	3.68
PETRO.MET	.13	.16	.18	.22	.25	.30	.36
L D TRANS	1.06	1.16	1.28	1.46	1.67	1.94	2.24
WHOL TRAD	3.20	3.59	4.01	4.52	5.09	5.76	6.49
NT FIN-IN	1.08	1.18	1.29	1.42	1.57	1.82	2.11
INST SERV	2.71	3.12	3.61	4.17	4.84	5.63	6.54
F.S GOV	3.56	4.12	4.72	4.95	5.20	5.56	5.94
ALL BASIC	26.53	28.59	30.89	33.29	36.01	39.64	43.79
CONSTR	3.47	4.38	5.49	6.44	7.55	8.90	10.49
L TR.CM+U	1.64	1.96	2.35	2.85	3.47	4.28	5.27
RETAIL TR	12.90	14.56	16.28	18.40	20.71	23.83	27.50
LOC FIRE	2.42	2.71	3.03	3.52	4.08	4.75	5.50
LOC SERV	12.30	14.63	17.14	18.88	21.62	24.98	28.83
LOC GOV	8.28	9.62	11.01	12.65	14.53	17.08	19.99
ALL POPSRV	41.01	47.86	55.30	62.74	71.96	83.82	97.58
TOTAL EMPL	67.54	76.45	86.19	96.03	107.97	123.46	141.37

SONOMA	SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)						
AG.FR.FSH	17.72	18.29	18.83	19.38	19.88	20.39	20.88
MINING	8.60	9.20	9.54	9.80	10.03	10.07	10.17
NEW TECH	.61	.71	.84	.97	1.08	1.20	1.32
CENTR URB	1.86	1.86	1.87	1.87	1.86	1.85	1.84
DECENTR	5.13	5.36	5.58	5.80	6.01	6.22	6.43
MET.MACH	1.33	1.51	1.68	1.88	2.09	2.33	2.60
PETRO/MET	.30	.36	.39	.46	.51	.58	.67
L D TRANS	1.30	1.44	1.60	1.76	1.93	2.12	2.31
WHOL TRAD	2.65	2.90	3.15	3.41	3.68	3.95	4.24
NT FIN.IN	2.61	2.79	2.96	3.14	3.34	3.54	3.77
INST SERV	1.71	1.74	1.77	1.81	1.84	1.87	1.90
F.S GOV	2.73	2.88	3.02	3.15	3.27	3.40	3.54
ALL BASIC	2.84	2.89	2.92	2.97	3.01	3.06	3.12
CONSTR	3.42	3.73	4.06	4.41	4.78	5.17	5.56
L TR.CM.U	2.33	2.62	2.95	3.30	3.70	4.13	4.62
RETAIL TR	4.34	4.53	4.72	4.92	5.11	5.30	5.50
LOC FIRE	2.77	2.99	3.22	3.46	3.71	3.97	4.24
LOC SERV	4.16	4.37	4.57	4.77	4.97	5.16	5.34
LOC GOV	4.42	4.63	4.83	5.03	5.23	5.43	5.63
ALL POPSRV	3.95	4.17	4.40	4.63	4.86	5.10	5.34
TOTAL EMPL	3.42	3.58	3.72	3.88	4.04	4.20	4.38

[illegible]

Fig. 3.9 BASIC EMPLOYMENT TRENDS
SONOMA COUNTY



— CONSTANT OR INCREASING SHARE OF COUNTY EMPLOYMENT
 - - - DECREASING SHARE OF COUNTY EMPLOYMENT

TABLE 3.26
EMPLOYMENT GROWTH ANALYSIS
SONOMA COUNTY: 1970-2000

<u>Industry</u>	<u>Relative Growth Rate</u>	<u>Percentage Share of Industry's Regional Growth</u>
AG, FR, FSH	Fast	8.05
MINING	Average	2.60
NEW TECH	Very Fast	1.96
CENTR URB	Average	1.81
DECENTR	Fast	n.a.
MET, MACH	Very Fast	4.17
PETRO, MET	Very Fast	2.12
L D TRANS	Very Fast	7.64
WHOL TRAD	Very Fast	10.10
NT FIN, IN	Fast	7.05
INST SERV	Average	2.06
F, S, GOV	Fast	6.75
ALL BASIC	Average	3.69
ALL POPSRV	Fast	7.18
TOTAL EMP	Fast	5.88

ABAG/MTC/DOH Employment Projections
Series C.2: Target Year Specific - Geographic Units

Table 3.27: SONOMA COUNTY

PROJECTIONS OF SONOMA EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR (PCT)	PERCENT GROWTH 1970-*	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE (PCT/YR)		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.			1970	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
TOTAL	67.54	141.37	73.83	100.00	109.31	3.42	4.38	100.00	100.00	3.97	2.49	.29	.82
BASIC	26.53	43.79	17.26	23.38	65.06	2.84	3.12	39.28	30.98	1.58	1.68	-1.28	.32
POP-SERV	41.01	97.58	56.57	76.62	137.94	3.95	5.34	60.72	69.02	5.94	2.93	1.25	1.01
AG,FR,FSH	6.70	5.95	-.75	-1.02	-11.19	17.72	20.88	9.92	4.21	-3.35	-.39	-4.39	.55
MINING	.32	.30	-.02	-.03	-6.25	8.60	10.17	.47	.21	4.61	-.21	4.11	.56
NEW TECH	.53	2.45	1.92	2.60	362.26	.61	1.32	.78	1.73	27.67	5.24	19.17	2.63
CENTR URB	.85	1.31	.46	.62	54.12	1.86	1.84	1.26	.93	2.26	1.45	.57	-.03
DECENTR	5.25	6.42	1.17	1.58	22.29	5.13	6.43	7.77	4.54	1.45	.67	1.26	.76
MET,MACH	1.04	3.68	2.64	3.58	253.85	1.33	2.60	1.54	2.60	9.88	4.30	6.59	2.26
PETRO-MET	.13	.36	.23	.31	176.92	.30	.67	.19	.25	3.52	3.45	2.25	2.68
L D TRANS	1.06	2.24	1.18	1.60	111.32	1.30	2.31	1.57	1.58	-1.11	2.53	-3.62	1.93
WHOL TRAD	3.20	6.49	3.29	4.46	102.81	2.65	4.24	4.74	4.59	2.47	2.39	.44	1.57
NT FIN,IN	1.08	2.11	1.03	1.40	95.37	2.61	3.77	1.60	1.49	21.39	2.26	17.77	1.23
INST SERV	2.71	6.54	3.83	5.19	141.33	1.71	1.90	4.01	4.63	7.12	2.98	-.66	.35
F,S GOV	3.66	5.94	2.28	3.09	62.30	2.73	3.54	5.42	4.20	2.83	1.63	-.33	.87
CONSTR	3.47	10.49	7.02	9.51	202.31	3.42	5.56	5.14	7.42	1.38	3.76	.15	1.64
L TR,CM,U	1.64	5.27	3.63	4.92	221.34	2.33	4.62	2.43	3.73	3.94	3.97	-.08	2.30
RETAIL TR	12.90	27.50	14.60	19.78	113.18	4.34	5.50	19.10	19.45	4.93	2.56	.59	.80
LOC FIRE	2.42	5.50	3.08	4.17	127.27	2.77	4.24	3.58	3.89	4.78	2.77	.00	1.43
LOC SERV	12.30	28.83	16.53	22.39	134.39	4.16	5.34	18.21	20.39	7.32	2.88	2.19	.84
LOC GOV	8.28	19.99	11.71	15.86	141.43	4.42	5.63	12.26	14.14	8.14	2.98	1.33	.81

*2000

APPENDICES

APPENDIX A-1

INDUSTRY TRENDS

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.1: AGRICULTURE, FORESTRY AND FISHING

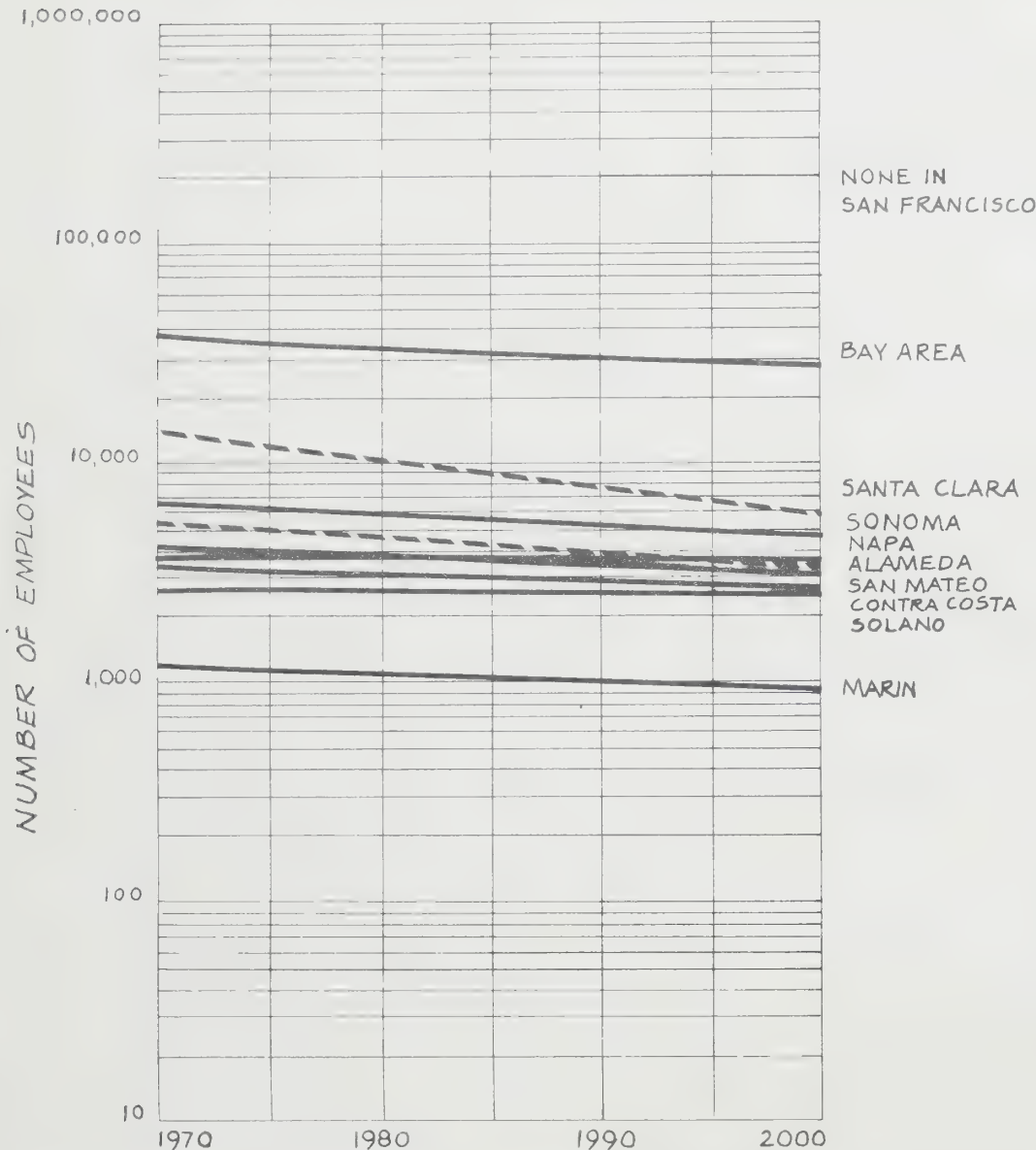
COUNTY	AG,FR,FSH EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	37.82	36.41	34.47	32.61	30.93	29.67	28.50
ALAMEDA	5.66	5.21	4.71	4.25	3.84	3.50	3.19
CNTRA CSTA	3.24	3.22	3.14	3.05	2.97	2.92	2.87
MARIN	1.28	1.24	1.18	1.12	1.06	1.02	.97
NAPA	3.52	3.58	3.58	3.57	3.57	3.59	3.62
SAN FRANCISCO	.00	.00	.00	.00	.00	.00	.00
SAN MATEO	4.15	4.02	3.82	3.63	3.45	3.30	3.17
SANTA CLARA	10.58	9.74	8.81	7.94	7.17	6.54	5.96
SOLANO	2.69	2.74	2.74	2.73	2.72	2.75	2.77
SONOMA	6.70	6.66	6.49	6.32	6.15	6.05	5.95

AG,FR,FSH SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	14.97	14.31	13.66	13.03	12.42	11.80	11.19
CNTRA CSTA	8.57	8.84	9.11	9.35	9.60	9.84	10.07
MARIN	3.38	3.41	3.42	3.43	3.43	3.44	3.40
NAPA	9.31	9.83	10.39	10.95	11.54	12.10	12.70
SAN FRANCISCO	.00	.00	.00	.00	.00	.00	.00
SAN MATEO	10.97	11.04	11.08	11.13	11.15	11.12	11.12
SANTA CLARA	27.97	26.75	25.56	24.35	23.18	22.04	20.91
SOLANO	7.11	7.53	7.95	8.37	8.79	9.27	9.72
SONOMA	17.72	18.29	18.83	19.38	19.88	20.39	20.88

AG,FR,FSH SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	1.92	1.70	1.49	1.32	1.16	1.01	.88
ALAMEDA	1.23	1.05	.88	.74	.62	.52	.44
CNTRA CSTA	2.22	1.96	1.71	1.50	1.31	1.14	.99
MARIN	2.26	1.95	1.67	1.44	1.23	1.06	.89
NAPA	12.85	11.59	10.31	9.28	8.29	7.31	6.43
SAN FRANCISCO	.00	.00	.00	.00	.00	.00	.00
SAN MATEO	1.84	1.66	1.47	1.32	1.17	1.03	.91
SANTA CLARA	2.53	2.07	1.67	1.36	1.11	.90	.72
SOLANO	4.66	4.28	3.83	3.44	3.05	2.69	2.35
SONOMA	9.92	8.71	7.53	6.58	5.70	4.90	4.21

Fig A.1.1
EMPLOYMENT TRENDS

AGRICULTURE, FORESTRY & FISHING



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.2
Employment Growth Analysis
Agriculture, Forestry and Fishing

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Slow	26.50
Contra Costa	Fast	3.97
Marin	Average	3.33
Napa	Fast	n.a.
San Francisco	Fast	0.
San Mateo	Average	10.52
Santa Clara	Slow	49.57
Solano	Fast	n.a.
Sonoma	Fast	8.05

Regional employment declines, especially in urbanizing counties.

The projected relative growth rates were substantially increased over the base period growth rates for Alameda, Napa, Santa Clara, Solano and Sonoma; and slightly increased for Marin and San Francisco.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.3: AGRICULTURE, FORESTRY AND FISHING

PROJECTIONS OF AG,FR,FSH EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG.TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT.INCR	GROWTH	FOR INDUSTRY(PCT)	EMPLOYMENT(PCT)	1970	2000	1960-69	1970-*.	1960-69	1970-*. TO REG.GRWTH(PCT/YR)
PAY AREA 9	37.82	28.50	-9.32	100.00	-24.64	100.00	100.00	1.92	.88	1.09	-.94	.0.	0.
ALAMEDA	5.66	3.19	-2.47	25.50	-43.64	14.97	11.19	1.23	.44	-3.20	-1.89	-4.24	-.96
CONTRA COSTA	3.24	2.87	-.37	3.97	-11.42	8.57	10.07	2.22	.99	1.40	-.40	.31	.54
MARIN	1.28	.97	-.31	3.33	-24.22	3.38	3.40	2.26	.89	0.	-.92	-1.07	.02
SACRAMENTO	3.52	3.62	.10	-1.07	2.84	9.31	12.70	12.85	6.43	-2.45	.09	-3.50	1.04
SAN FRANCISCO	.00	.00	0.	0.	0.	.00	.00	.00	.00	0.	0.	-1.07	.95
SAN MATEO	4.15	3.17	-.98	10.52	-23.61	10.97	11.12	1.84	.91	1.37	-.89	.28	.05
SANTA CLARA	10.58	5.96	-4.62	49.57	-43.67	27.97	20.91	2.53	.72	-4.79	-1.89	-5.81	-.97
SOLANO	2.69	2.77	.08	-.86	2.97	7.11	9.72	4.66	2.35	-2.72	.10	-3.76	1.05
SONOMA	6.70	5.95	-.75	8.05	-11.19	17.72	20.88	9.92	4.21	-3.35	-.39	-4.39	.55

*2000

ABAG/MTC/DCH Employment Projections
Series B: Industry Specific

Table A.1.4: MINING

COUNTY	MINING EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
RAY AREA 9	3.72	3.37	3.04	3.06	2.99	2.98	2.95
ALAMEDA	1.66	1.58	1.49	1.51	1.49	1.50	1.49
CNTRA CSTA	.26	.22	.19	.18	.18	.17	.17
MARIN	.22	.19	.16	.16	.15	.15	.14
NAPA	.02	.02	.01	.01	.01	.01	.01
SAN FRANCISCO	.76	.64	.54	.53	.50	.49	.48
SAN MATEO	.00	.00	.00	.00	.00	.00	.00
SANTA CLARA	.26	.22	.19	.19	.18	.17	.17
SOLANO	.22	.19	.17	.18	.18	.19	.19
SONOMA	.32	.31	.29	.30	.30	.30	.30

COUNTY	MINING SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)						
	1970	1975	1980	1985	1990	1995	2000
RAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	44.62	46.88	49.01	49.35	49.83	50.34	50.51
CNTRA CSTA	6.99	6.53	6.25	5.88	6.02	5.70	5.76
MARIN	5.91	5.64	5.26	5.23	5.02	5.03	4.75
NAPA	.54	.59	.33	.33	.33	.34	.34
SAN FRANCISCO	20.43	18.99	17.76	17.32	16.72	16.44	16.27
SAN MATEO	.00	.00	.00	.00	.00	.00	.00
SANTA CLARA	6.99	6.53	6.25	6.21	6.02	5.70	5.76
SOLANO	5.91	5.64	5.59	5.88	6.02	6.38	6.44
SONOMA	8.60	9.20	9.54	9.80	10.03	10.07	10.17

COUNTY	MINING SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)						
	1970	1975	1980	1985	1990	1995	2000
RAY AREA 9	.19	.16	.13	.12	.11	.10	.09
ALAMEDA	.36	.32	.28	.26	.24	.22	.20
CNTRA CSTA	.18	.13	.10	.09	.08	.07	.06
MARIN	.39	.30	.23	.21	.17	.16	.13
NAPA	.07	.06	.03	.03	.02	.02	.02
SAN FRANCISCO	.15	.12	.10	.10	.09	.08	.08
SAN MATEO	.00	.00	.00	.00	.00	.00	.00
SANTA CLARA	.06	.05	.04	.03	.03	.02	.02
SOLANO	.38	.30	.24	.23	.20	.19	.16
SONOMA	.47	.41	.34	.31	.28	.24	.21

Fig. A.1.2
EMPLOYMENT TRENDS
MINING

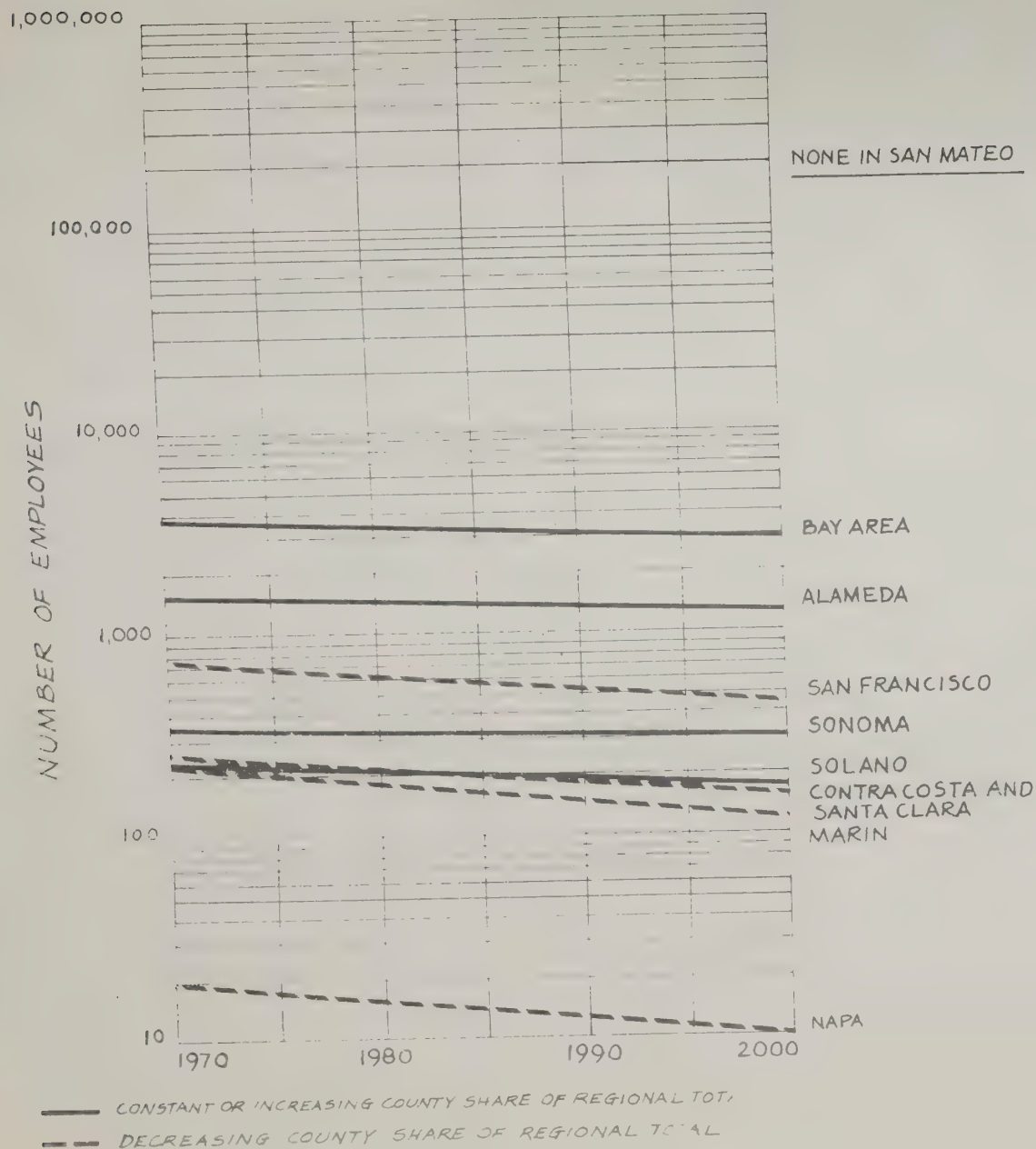


Table A.1.5
Employment Growth Analysis
Mining

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	22.08
Contra Costa	Slow	11.69
Marin	Slow	10.39
Napa	Very Slow	1.30
San Francisco	Slow	36.36
San Mateo	Fast	0.
Santa Clara	Slow	11.69
Solano	Average	3.90
Sonoma	Average	2.60

Regional and county employment declined.

The projected relative growth rates were substantially increased over the base period growth rates for Contra Costa and San Mateo; substantially decreased for Sonoma; and slightly decreased for Alameda and Napa.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.6: MINING

9-V

PROJECTIONS OF MINING EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCORPORATED		PERCENT SHARE OF REG. TOT.		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCORPORATED	OF TOT. INCORPORATED	FOR INDUSTRY (PCT)	FOR INDUSTRY (PCT)	EMPLOYMENT (PCT)	EMPLOYMENT (PCT)	1960-69	1970-80	1960-69	1970-80
PAY AREA 9	3.72	2.95	-.77	100.00	-20.70	100.00	100.00	.19	.09	.47	-.77	0.	0.
ALAMEDA	1.66	1.49	-.17	22.08	-10.24	44.62	50.51	.36	.20	2.25	-.36	1.77	.41
CATRA COSTA	.26	.17	-.09	11.69	-34.62	6.99	5.76	.18	.06	-4.41	-1.41	-4.86	-.64
MARTIN	.22	.14	-.08	10.39	-36.36	5.91	4.75	.39	.13	0.	-1.50	-.47	-.73
NAPA	.02	.01	-.01	1.30	-50.00	.54	.34	.07	.02	0.	-2.28	-.47	-1.53
SAN FRANCISCO	.76	.48	-.28	36.36	-36.84	20.43	16.27	.15	.08	0.	-1.52	-.47	-.76
SAN MATEO	.00	.00	0.	0.	0.	.00	.00	.00	.00	-53.58	0.	-53.80	.78
SANTA CLARA	.26	.17	-.09	11.69	-24.62	6.99	5.76	.06	.02	0.	-1.41	-.47	-.64
OLAND	.22	.19	-.03	3.90	-13.64	5.91	6.44	.38	.16	0.	-.49	-.47	.28
SONOMA	.32	.30	-.02	2.60	-5.25	8.60	10.17	.47	.21	4.61	-.21	4.11	.56

*2000

ABAG/MTC/DOM Employment Projections
Series B: Industry Specific

Table A.1.7: NEW TECHNOLOGY MANUFACTURING

COUNTY	NEW TECH EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	87.58	100.45	116.05	129.92	145.39	164.39	185.70
ALAMEDA	4.34	5.44	6.84	8.32	10.09	12.33	15.00
CNTRA CSTA	1.51	1.94	2.51	3.13	3.89	4.87	6.07
MARIN	1.03	1.29	1.63	1.98	2.40	2.94	3.57
NAPA	.25	.30	.35	.41	.47	.54	.63
SAN FRANCISCO	1.43	1.62	1.85	2.03	2.23	2.47	2.72
SAN MATEO	11.18	14.01	17.63	21.44	26.00	31.76	38.65
SANTA CLARA	67.23	75.04	84.16	91.22	98.59	107.33	116.41
SOLANO	.08	.10	.11	.13	.15	.18	.20
SONOMA	.53	.71	.97	1.26	1.57	1.97	2.45

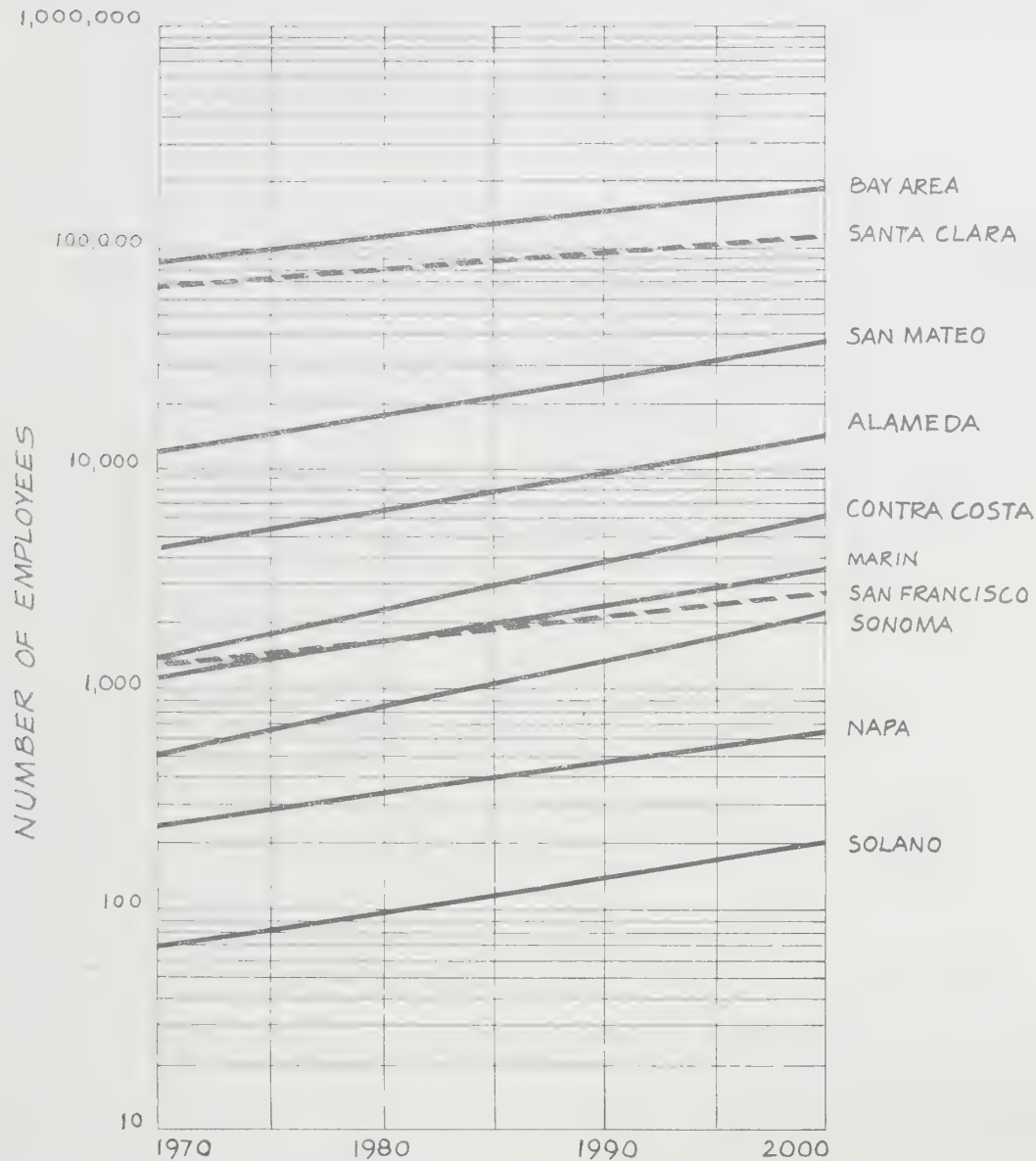
NEW TECH SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	4.96	5.42	5.89	6.40	6.94	7.50	8.08
CNTRA CSTA	1.72	1.93	2.16	2.41	2.68	2.96	3.27
MARIN	1.18	1.28	1.40	1.52	1.65	1.79	1.92
NAPA	.29	.30	.30	.32	.32	.33	.34
SAN FRANCISCO	1.63	1.61	1.59	1.56	1.53	1.50	1.46
SAN MATEO	12.77	13.95	15.19	16.50	17.88	19.32	20.81
SANTA CLARA	76.76	74.70	72.52	70.21	67.81	65.29	62.69
SOLANO	.09	.10	.09	.10	.10	.11	.11
SONOMA	.61	.71	.84	.97	1.08	1.20	1.32

NEW TECH SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	4.44	4.70	5.01	5.24	5.44	5.60	5.75
ALAMEDA	.94	1.09	1.27	1.45	1.64	1.84	2.05
CNTRA CSTA	1.03	1.18	1.37	1.54	1.72	1.90	2.09
MARIN	1.82	2.03	2.30	2.55	2.80	3.05	3.29
NAPA	.91	.97	1.01	1.07	1.09	1.10	1.12
SAN FRANCISCO	.28	.31	.34	.37	.40	.42	.45
SAN MATEO	4.97	5.80	6.80	7.78	8.80	9.88	11.04
SANTA CLARA	16.07	15.93	15.98	15.68	15.24	14.70	14.12
SOLANO	.14	.16	.15	.16	.17	.18	.17
SONOMA	.78	.93	1.13	1.31	1.45	1.60	1.73

Fig. A.1.3

EMPLOYMENT TRENDS

NEW TECHNOLOGY MANUFACTURING



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.8
 Employment Growth Analysis
 New Technology Manufacturing

A-8

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Very Fast	10.86
Contra Costa	Very Fast	4.65
Marin	Very Fast	2.59
Napa	Fast	1.59
San Francisco	Average	1.51
San Mateo	Very Fast	26.00
Santa Clara	Slow	50.11
Solano	Average	1.12
Sonoma	Very Fast	1.80

Employment doubled in the region and every county, except Santa Clara and San Francisco which slightly less than doubled.

The projected relative growth rates were substantially increased over the base period growth rates for Alameda, Contra Costa, San Francisco, San Mateo and Solano; substantially decreased for Marin and Sonoma; and slightly decreased for Santa Clara.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.9: NEW TECHNOLOGY MANUFACTURING

PROJECTIONS OF NEW TECH EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE		
	1970	2000	INCR.	OF TOT. INCR	1970-80	FOR INDUSTRY (PCT)	1970	2000	1970	2000	1960-69	1970-80	TO REG. GRWTH (PCT/YR)
				(PCT)									
PAY AREA 9	87.58	185.70	98.12	100.00	112.03	100.00	100.00	4.44	5.75	7.14	2.54	0.	0.
ALAMEDA	4.34	15.00	10.66	10.86	245.62	4.96	8.08	.94	2.05	3.35	4.22	-3.54	1.64
CONTRA COSTA	1.51	6.07	4.56	4.65	301.99	1.72	3.27	1.03	2.09	6.52	4.75	-.58	2.16
MARIN	1.03	3.57	2.54	2.59	246.60	1.18	1.92	1.82	3.29	20.23	4.23	12.22	1.65
NAPA	.25	.63	.38	.39	152.00	.29	.34	.91	1.12	7.12	3.13	-.02	.58
SAN FRANCISCO	1.43	2.72	1.29	1.31	90.21	1.63	1.46	.28	.45	-2.18	2.17	-8.70	-.36
SAN MATEO	11.18	38.65	27.47	28.00	245.71	12.77	20.81	4.97	11.04	3.22	4.22	-3.66	1.64
SANTA CLARA	67.23	116.41	49.18	50.12	73.15	76.76	62.69	16.07	14.12	8.37	1.85	1.15	-.67
SOLANO	.08	.20	.12	.12	150.00	.09	.11	.14	.17	1.62	3.10	-5.15	.55
SONOMA	.53	2.45	1.92	1.96	362.26	.61	1.32	.78	1.73	27.67	5.24	19.17	2.63

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.10: CENTRALIZED URBAN MANUFACTURING

COUNTY	CENTR URB EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	45.66	49.92	54.49	57.75	61.21	65.96	71.11
ALAMEDA	8.27	9.29	10.40	11.28	12.21	13.42	14.71
CNTRA CSTA	1.79	2.06	2.36	2.62	2.91	3.27	3.68
MARIN	.77	.86	.95	1.02	1.09	1.18	1.28
NAPA	.85	.89	.93	.93	.94	.95	.97
SAN FRANCISCO	20.69	21.57	22.41	22.57	22.67	23.12	23.53
SAN MATEO	4.75	5.47	6.27	6.97	7.74	8.71	9.79
SANTA CLARA	7.28	8.38	9.61	10.68	11.85	13.34	15.00
SOLANO	.41	.47	.54	.60	.66	.75	.84
SONOMA	.85	.93	1.02	1.08	1.14	1.22	1.31

CENTR URB SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	18.11	18.61	19.09	19.53	19.95	20.35	20.69
CNTRA CSTA	3.92	4.13	4.33	4.54	4.75	4.96	5.18
MARIN	1.69	1.72	1.74	1.77	1.78	1.79	1.80
NAPA	1.86	1.78	1.71	1.61	1.54	1.44	1.36
SAN FRANCISCO	45.31	43.21	41.13	39.08	37.04	35.05	33.09
SAN MATEO	10.40	10.96	11.51	12.07	12.64	13.20	13.77
SANTA CLARA	15.94	16.79	17.64	18.49	19.36	20.22	21.09
SOLANO	.90	.94	.99	1.04	1.08	1.14	1.18
SONOMA	1.86	1.86	1.87	1.87	1.86	1.85	1.84

CENTR URB SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	2.31	2.33	2.35	2.33	2.29	2.25	2.20
ALAMEDA	1.80	1.87	1.94	1.97	1.98	2.00	2.01
CNTRA CSTA	1.22	1.25	1.28	1.29	1.28	1.27	1.27
MARIN	1.36	1.36	1.34	1.31	1.27	1.22	1.18
NAPA	3.10	2.88	2.68	2.42	2.18	1.93	1.72
SAN FRANCISCO	4.02	4.07	4.12	4.09	4.02	3.95	3.87
SAN MATEO	2.11	2.26	2.42	2.53	2.62	2.71	2.80
SANTA CLARA	1.74	1.78	1.83	1.84	1.83	1.83	1.82
SOLANO	.71	.73	.75	.76	.74	.73	.71
SONOMA	1.26	1.22	1.18	1.12	1.06	.99	.93

Fig. A.1.4

EMPLOYMENT TRENDS

CENTRALIZED URBAN MANUFACTURING

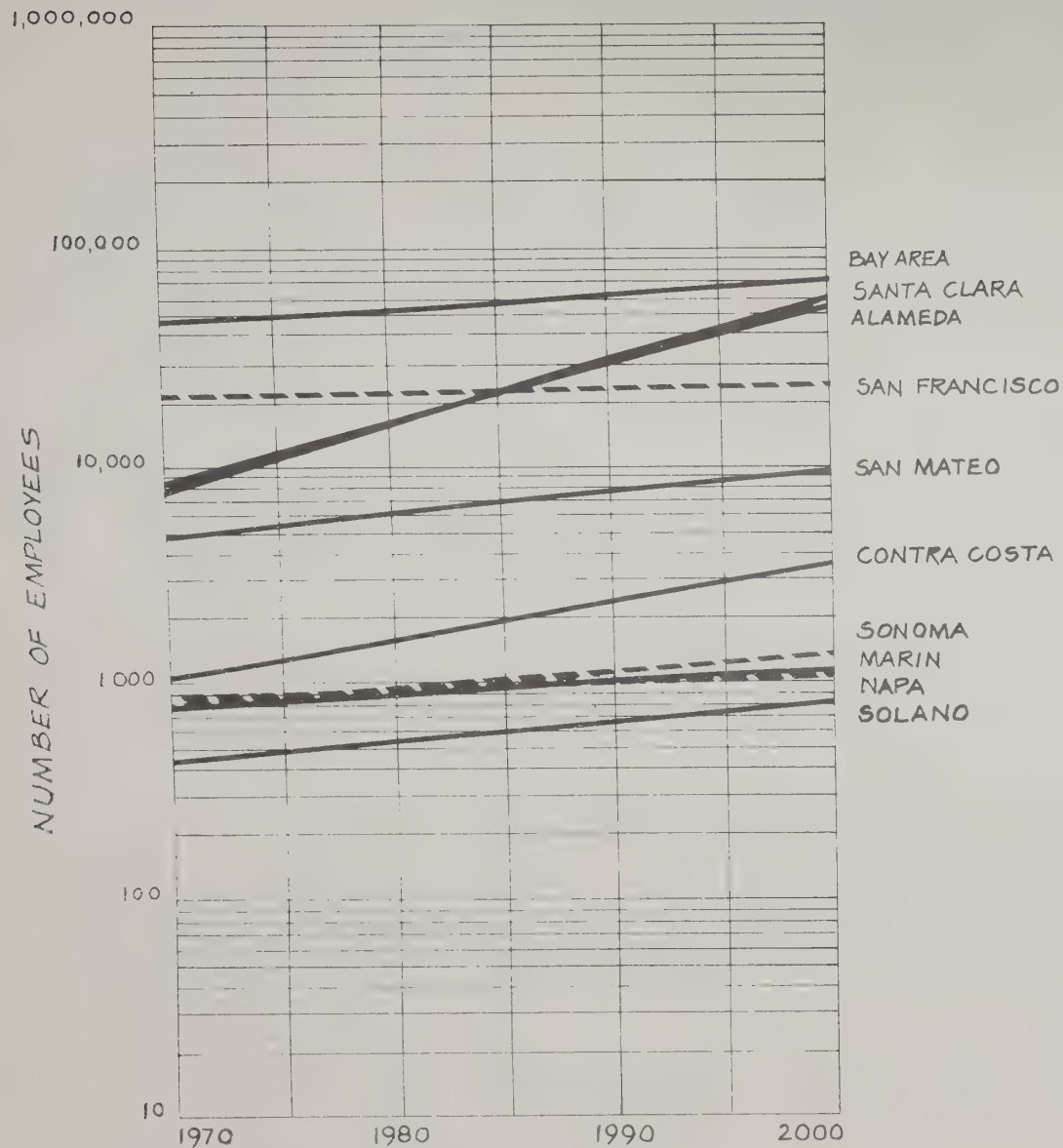


Table A.1.11
Employment Growth Analysis
Centralized Urban Manufacturing

County	Relative Growth Rate	Percentage of Regional Growth
Alameda	Average	25.30
Contra Costa	Fast	7.43
Marin	Average	2.00
Napa	Slow	.47
San Francisco	Slow	11.16
San Mateo	Fast	19.80
Santa Clara	Fast	30.33
Solano	Fast	1.69
Sonoma	Average	1.81

Employment grew substantially in the region and every county, except San Francisco and Napa.

The projected relative growth rates were increased slightly over the base period growth rates for Alameda; decreased substantially for San Mateo, Santa Clara and Solano; and decreased slightly for Contra Costa and Marin.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.12: CENTRALIZED URBAN MANUFACTURING

PROJECTIONS OF CENTR URB EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE OF TOT. INCR	PERCENT GROWTH	SHARE OF REG. TOT FOR INDUSTRY (PCT)	SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ----- (PCT/YR) -----		GROWTH RATE RELATIVE TO REG. GROWTH (PCT/YR)			
	1970	2000				1970	2000	1960-69	1970-*. .	1960-69	1970-*. .		
FAY AREA.9	45.66	71.11	25.45	100.00	55.74	100.00	100.00	2.31	2.20	1.68	1.49	0.	0.
ALAMEDA	8.27	14.71	6.44	25.30	77.87	18.11	20.69	1.80	2.01	.80	1.94	-.86	.44
CONTRA COSTA	1.79	3.68	1.89	7.43	105.59	3.92	5.18	1.22	1.27	3.99	2.43	2.27	.93
MARIN	.77	1.28	.51	2.00	66.23	1.69	1.80	1.36	1.18	3.25	1.71	1.54	.22
NAPA	.85	.97	.12	.47	14.12	1.86	1.36	3.10	1.72	1.25	.44	-.42	-1.03
SAN FRANCISCO	20.69	23.53	2.84	11.16	13.73	45.31	33.09	4.02	3.87	-.25	.43	-1.90	-1.04
SAN MATEO	4.75	9.79	5.04	19.80	106.11	10.40	13.77	2.11	2.80	7.75	2.44	5.97	.94
SANTA CLARA	7.28	15.00	7.72	30.33	106.04	15.94	21.09	1.74	1.82	6.27	2.44	4.51	.94
SOLANO	.41	.84	.43	1.69	104.88	.90	1.18	.71	.71	6.44	2.42	4.69	.92
SONOMA	.85	1.31	.46	1.81	54.12	1.86	1.84	1.26	.93	2.26	1.45	.57	-.03

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.13: DECENTRALIZED URBAN MANUFACTURING

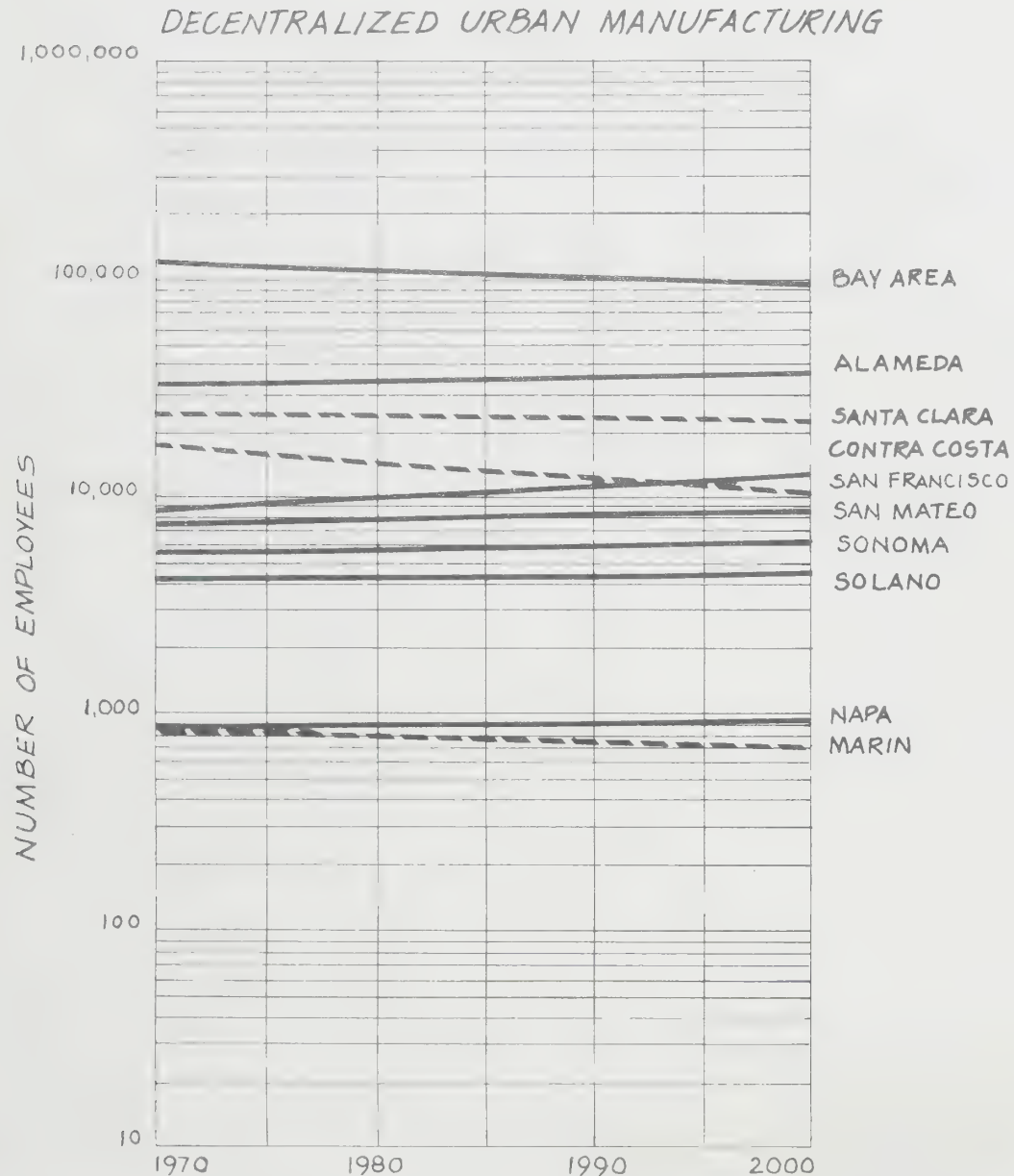
COUNTY	DECENTR EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	102.43	99.71	96.71	96.65	96.97	98.39	99.89
ALAMEDA	30.48	30.85	31.01	32.04	33.15	34.61	36.07
CNTRA CSTA	8.81	8.91	8.96	9.26	9.58	10.00	10.42
MARIN	.81	.80	.78	.77	.75	.73	.71
NAPA	.90	.90	.89	.90	.92	.95	.97
SAN FRANCISCO	18.96	16.50	14.27	12.68	11.28	10.13	9.08
SAN MATEO	7.59	7.68	7.72	7.98	8.26	8.62	8.99
SANTA CLARA	25.62	24.67	23.60	23.20	22.84	22.68	22.49
SOLANO	4.01	4.06	4.08	4.21	4.36	4.55	4.74
SONOMA	5.25	5.34	5.40	5.61	5.83	6.12	6.42

DECENTR SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	29.76	30.94	32.06	33.15	34.19	35.18	36.11
CNTRA CSTA	8.60	8.94	9.26	9.58	9.88	10.16	10.43
MARIN	.79	.80	.81	.80	.77	.74	.71
NAPA	.88	.90	.92	.93	.95	.97	.97
SAN FRANCISCO	18.51	16.55	14.76	13.12	11.63	10.30	9.09
SAN MATEO	7.41	7.70	7.98	8.26	8.52	8.76	9.00
SANTA CLARA	25.01	24.74	24.40	24.00	23.55	23.05	22.51
SOLANO	3.91	4.07	4.22	4.36	4.50	4.62	4.75
SONOMA	5.13	5.36	5.58	5.80	6.01	6.22	6.43

DECENTR SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	5.19	4.66	4.18	3.90	3.63	3.35	3.09
ALAMEDA	6.63	6.20	5.77	5.59	5.38	5.15	4.93
CNTRA CSTA	6.03	5.42	4.87	4.55	4.22	3.89	3.58
MARIN	1.43	1.26	1.10	.99	.87	.76	.65
NAPA	3.29	2.91	2.56	2.34	2.14	1.93	1.72
SAN FRANCISCO	3.68	3.11	2.62	2.30	2.00	1.73	1.49
SAN MATEO	3.37	3.18	2.98	2.90	2.80	2.68	2.57
SANTA CLARA	6.12	5.25	4.48	3.99	3.53	3.11	2.73
SOLANO	6.95	6.33	5.70	5.31	4.89	4.45	4.02
SONOMA	7.77	6.98	6.27	5.84	5.40	4.96	4.54

Fig. A.1.5

EMPLOYMENT TRENDS



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL

- - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.14
Employment Growth Analysis
Decentralized Urban Manufacturing

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Fast	n.a.
Contra Costa	Fast	n.a.
Marin	Average	3.94
Napa	Average	n.a.
San Francisco	Very Slow	388.98
San Mateo	Fast	n.a.
Santa Clara	Average	123.25
Solano	Fast	n.a.
Sonoma	Fast	n.a.

A-14

Employment remained constant in the region; but decreased in Marin, San Francisco and Santa Clara.

The projected relative growth rates were increased substantially over the base period growth rates for Marin; increased slightly for Alameda; decreased substantially for Santa Clara and Solano; and decreased slightly in San Mateo.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.15: DECENTRALIZED URBAN MANUFACTURING

PROJECTIONS OF DECENTR EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR (PCT)	PERCENT GROWTH 1970-*. (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE (PCT/YR)		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.			1970	2000	1970	2000	1960-69	1970-*. (PCT/YR)	1960-69	1970-*. (PCT/YR)
HAY AREA 9	102.43	99.89	-2.54	100.00	-2.48	100.00	100.00	5.19	3.09	.19	-.08	0.	0.
ALAMEDA	30.48	36.07	5.59	-220.08	18.34	29.76	36.11	6.63	4.93	-.38	.56	-.57	.65
CONTRA COSTA	8.81	10.42	1.61	-63.39	18.27	8.60	10.43	6.03	3.58	.09	.56	-.09	.65
MARIN	.81	.71	-.10	3.94	-12.35	.79	.71	1.43	.65	-2.43	-.44	-2.61	-.35
NAPA	.90	.97	.07	-2.76	7.78	.88	.97	3.29	1.72	.69	.25	.50	.33
SAN FRANCISCO	18.96	9.08	-9.88	388.98	-52.11	18.51	9.09	3.68	1.49	-2.42	-2.42	-2.60	-2.34
SAN MATEO	7.59	8.99	1.40	-55.12	18.45	7.41	9.00	3.37	2.57	2.30	.57	2.11	.65
SANTA CLARA	25.62	22.49	-3.13	123.23	-12.22	25.01	22.51	6.12	2.73	2.40	-.43	2.21	-.35
SOLANO	4.01	4.74	.73	-28.74	18.20	3.91	4.75	6.95	4.02	6.16	.56	5.96	.64
SONOMA	5.25	6.42	1.17	-46.06	22.29	5.13	6.43	7.77	4.54	1.45	.67	1.26	.76

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.16: METAL FABRICATION AND MACHINERY

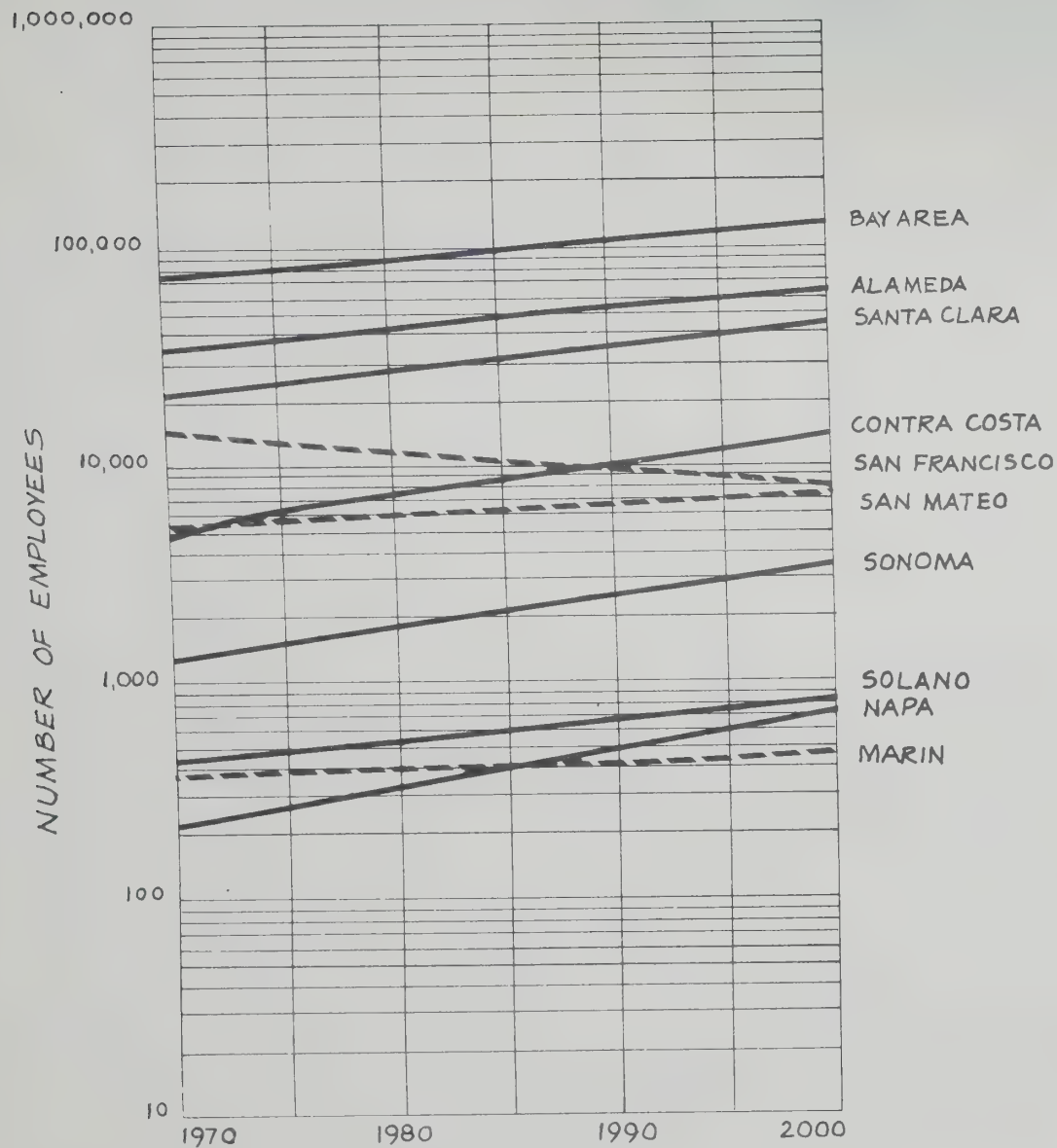
COUNTY	MET•MACH EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	78.28	87.03	96.76	105.27	114.69	127.24	141.65
ALAMEDA	33.75	38.14	42.98	47.24	51.86	57.81	64.51
CONTRA COSTA	4.93	5.98	7.22	8.51	10.01	11.97	14.31
MARIN	.39	.40	.41	.42	.42	.44	.46
NAPA	.21	.26	.32	.39	.48	.59	.73
SAN FRANCISCO	10.56	10.25	9.92	9.36	8.83	8.45	8.10
SAN MATEO	5.07	5.45	5.84	6.10	6.37	6.75	7.17
SANTA CLARA	21.89	24.74	27.88	30.65	33.64	37.50	41.84
SOLANO	.44	.50	.56	.62	.68	.76	.85
SONOMA	1.04	1.31	1.63	1.96	2.40	2.97	3.68

MET•MACH SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	43.11	43.82	44.42	44.88	45.22	45.43	45.54
CONTRA COSTA	6.30	6.87	7.46	8.08	8.73	9.41	10.10
MARIN	.50	.46	.42	.40	.37	.35	.32
NAPA	.27	.30	.33	.37	.42	.46	.52
SAN FRANCISCO	13.49	11.78	10.25	8.89	7.70	6.64	5.72
SAN MATEO	6.48	6.26	6.04	5.79	5.55	5.30	5.06
SANTA CLARA	27.96	28.43	28.81	29.12	29.33	29.47	29.54
SOLANO	.56	.57	.58	.59	.59	.60	.60
SONOMA	1.33	1.51	1.68	1.88	2.09	2.33	2.60

MET•MACH SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	3.97	4.07	4.18	4.25	4.29	4.33	4.39
ALAMEDA	7.34	7.66	8.00	8.24	8.42	8.61	8.81
CONTRA COSTA	3.37	3.64	3.93	4.19	4.41	4.66	4.92
MARIN	.69	.63	.58	.54	.49	.46	.42
NAPA	.77	.84	.92	1.01	1.11	1.20	1.30
SAN FRANCISCO	2.05	1.94	1.82	1.70	1.57	1.44	1.33
SAN MATEO	2.25	2.25	2.25	2.21	2.16	2.10	2.05
SANTA CLARA	5.23	5.27	5.29	5.27	5.20	5.14	5.08
SOLANO	.76	.78	.78	.78	.76	.74	.72
SONOMA	1.54	1.71	1.89	2.06	2.22	2.41	2.60

Fig A.1.6
EMPLOYMENT TRENDS

METAL FABRICATION AND MACHINERY



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.17
Employment Growth Analysis
Metal Fabrication and Machinery

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	48.54
Contra Costa	Very Fast	14.80
Marin	Slow	.11
Napa	Very Fast	.82
San Francisco	Very Slow	n.a.
San Mateo	Slow	3.31
Santa Clara	Average	31.48
Solano	Average	.65
Sonoma	Very Fast	4.17

Employment grew substantially in the region and all counties, except San Francisco (declined), and Marin and San Mateo.

The projected relative growth rates were increased substantially over the base period growth rates for Marin, San Francisco and Solano; increased slightly for San Mateo; and decreased substantially for Napa, Santa Clara and Sonoma.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.18: METAL FABRICATION AND MACHINERY

PROJECTIONS OF MET. MACH. EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHAPE OF TOT. INCR	PERCENT GROWTH	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.			1970-*, (PCT)	1970	2000	1970	2000	1960-69	1970-*, (PCT/YR)	1960-69
BAY AREA 9	78.28	141.65	63.37	100.00	80.95	100.00	100.00	3.97	4.39	3.08	2.00	0.	0.
ALAMEDA	33.75	64.51	30.76	48.54	91.14	43.11	45.54	7.34	8.81	3.02	2.18	-.06	.18
CONTRA COSTA	4.93	14.31	9.38	14.80	190.26	6.30	10.10	3.37	4.92	4.58	3.62	1.46	1.59
MARIN	.39	.46	.07	.11	17.95	.50	.32	.69	.42	-2.13	.55	-5.05	-1.42
NAPA	.21	.73	.52	.82	247.62	.27	.52	.77	1.30	7.77	4.24	4.55	2.20
SAN FRANCISCO	10.56	8.10	-2.46	-3.88	-23.30	13.49	5.72	2.05	1.33	-2.64	-.88	-5.55	-2.82
SAN MATEO	5.07	7.17	2.10	3.31	41.42	6.48	5.06	2.25	2.05	.96	1.16	-2.06	-.82
SANTA CLARA	21.89	41.84	19.95	31.48	91.14	27.96	29.54	5.23	5.08	8.28	2.18	5.05	.18
SOLANO	.44	.85	.41	.65	93.18	.56	.60	.76	.72	.08	2.22	-2.91	.22
SONOMA	1.04	3.68	2.64	4.17	253.85	1.33	2.60	1.54	2.60	9.88	4.30	6.59	2.26

*2000

ABAG/MTC/IXII Employment Projections
Series B: Industry Specific

Table A.1.19: PETROCHEMICALS AND PRIMARY METALS

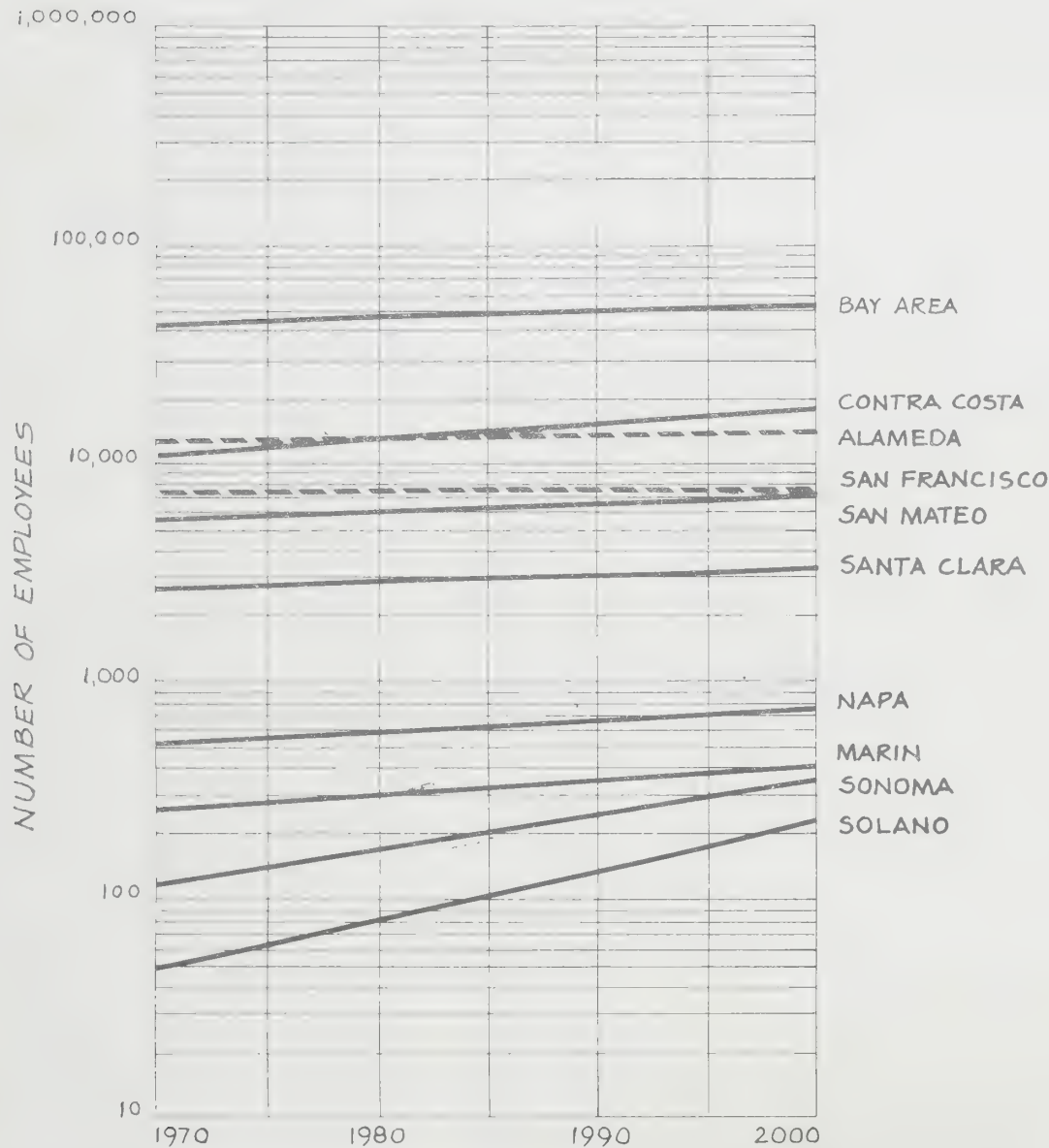
COUNTY	PETRO.MET EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	43.23	44.73	46.00	47.57	49.19	51.69	54.09
ALAMEDA	13.71	13.89	13.97	14.13	14.28	14.66	14.97
CNTRA CSTA	12.99	13.84	14.65	15.57	16.55	17.86	19.18
MARIN	.27	.29	.31	.33	.35	.37	.40
NAPA	.54	.57	.60	.64	.68	.74	.79
SAN FRNCISO	7.25	7.30	7.30	7.34	7.37	7.52	7.63
SAN MATEO	5.65	5.87	6.06	6.28	6.52	6.86	7.18
SNTA CLARA	2.64	2.74	2.83	2.94	3.04	3.20	3.35
SOLANO	.05	.07	.10	.12	.15	.18	.23
SONOMA	.13	.16	.18	.22	.25	.30	.36

PETRO.MET SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	31.71	31.05	30.37	29.70	29.03	28.36	27.68
CNTRA CSTA	30.05	30.94	31.85	32.73	33.65	34.55	35.46
MARIN	.62	.65	.67	.69	.71	.72	.74
NAPA	1.25	1.27	1.30	1.35	1.38	1.43	1.46
SAN FRNCISO	16.77	16.32	15.87	15.43	14.98	14.55	14.11
SAN MATEO	13.07	13.12	13.17	13.20	13.25	13.27	13.27
SNTA CLARA	6.11	6.13	6.15	6.18	6.18	6.19	6.19
SOLANO	.12	.16	.22	.25	.30	.35	.43
SONOMA	.30	.36	.39	.46	.51	.58	.67

PETRO.MET SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	2.19	2.09	1.99	1.92	1.84	1.76	1.68
ALAMEDA	2.98	2.79	2.60	2.46	2.32	2.18	2.04
CNTRA CSTA	8.88	8.42	7.97	7.66	7.30	6.96	6.59
MARIN	.48	.46	.44	.43	.41	.38	.37
NAPA	1.97	1.85	1.73	1.66	1.58	1.51	1.40
SAN FRNCISO	1.41	1.38	1.34	1.33	1.31	1.28	1.26
SAN MATEO	2.51	2.43	2.34	2.28	2.21	2.13	2.05
SNTA CLARA	.63	.58	.54	.51	.47	.44	.41
SOLANO	.09	.11	.14	.15	.17	.18	.19
SONOMA	.19	.21	.21	.23	.23	.24	.25

Fig A.1.7
EMPLOYMENT TRENDS

PETROCHEMICALS AND PRIMARY METALS



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.20
Employment Growth Analysis
Petrochemicals and Primary Metals

A-20

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	11.60
Contra Costa	Fast	57.00
Marin	Average	1.20
Napa	Fast	2.30
San Francisco	Slow	3.50
San Mateo	Average	14.09
Santa Clara	Average	6.54
Solano	Very Fast	1.66
Sonoma	Very Fast	2.12

Employment grew somewhat in the region and in all counties except Alameda and San Francisco.

The projected relative growth rates were substantially increased over the base period growth rates for Contra Costa; decreased substantially for Marin, Napa, San Mateo, Santa Clara and Solano; and decreased slightly for Alameda.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.21: PETROCHEMICALS AND PRIMARY METALS

PROJECTIONS OF PETRO,MET EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR (PCT)	PERCENT SHARE OF REG. TOT GROWTH FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000	INCR.		1970-*	1970	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
BAY AREA 9	43.23	54.09	10.86	100.00	25.12	100.00	100.00	2.19	1.68	1.25	.75	0.	0.
ALAMEDA	13.71	14.97	1.26	11.60	9.19	31.71	27.68	2.98	2.04	2.41	.29	1.14	-.45
CNTR. CSTA	12.99	19.18	6.19	57.00	47.65	30.05	35.46	8.88	6.59	-1.66	1.31	-2.88	.55
MARIN	.27	.40	.13	1.20	48.15	.62	.74	.48	.37	13.67	1.32	14.25	.56
NAPA	.54	.79	.25	2.30	46.30	1.25	1.46	1.97	1.40	5.09	1.28	3.80	.52
SAN FRANCISCO	7.25	7.63	.38	3.50	5.24	16.77	14.11	1.41	1.26	.36	.17	-.88	-.58
SAN MATEO	5.65	7.18	1.53	14.09	27.08	13.07	13.27	2.51	2.05	3.62	.80	2.34	.05
SNIA CLARA	2.64	3.35	.71	6.54	26.89	6.11	6.19	.63	.41	6.93	.80	5.61	.05
SOLANO	.05	.23	.18	1.66	360.00	.12	.43	.09	.19	41.26	5.22	39.52	4.44
SONOMA	.13	.36	.23	2.12	176.92	.30	.67	.19	.25	3.52	3.45	2.25	2.68

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.22: LONG DISTANCE TRANSPORTATION

COUNTY	L D TRANS EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	81.40	80.54	79.98	82.88	86.32	91.43	96.84
ALAMEDA	19.90	20.81	21.76	23.66	25.77	28.45	31.32
CNTRA CSTA	3.56	3.63	3.70	3.93	4.17	4.49	4.82
MARIN	.42	.42	.42	.44	.46	.49	.52
NAPA	.29	.30	.32	.35	.39	.43	.48
SAN FRANCISCO	21.83	19.64	17.66	16.51	15.47	14.69	13.91
SAN MATEO	27.49	27.35	27.21	28.15	29.17	30.65	32.10
SANTA CLARA	5.74	6.01	6.29	6.84	7.46	8.25	9.09
SOLANO	1.11	1.22	1.34	1.54	1.76	2.04	2.36
SONOMA	1.06	1.16	1.28	1.46	1.67	1.94	2.24

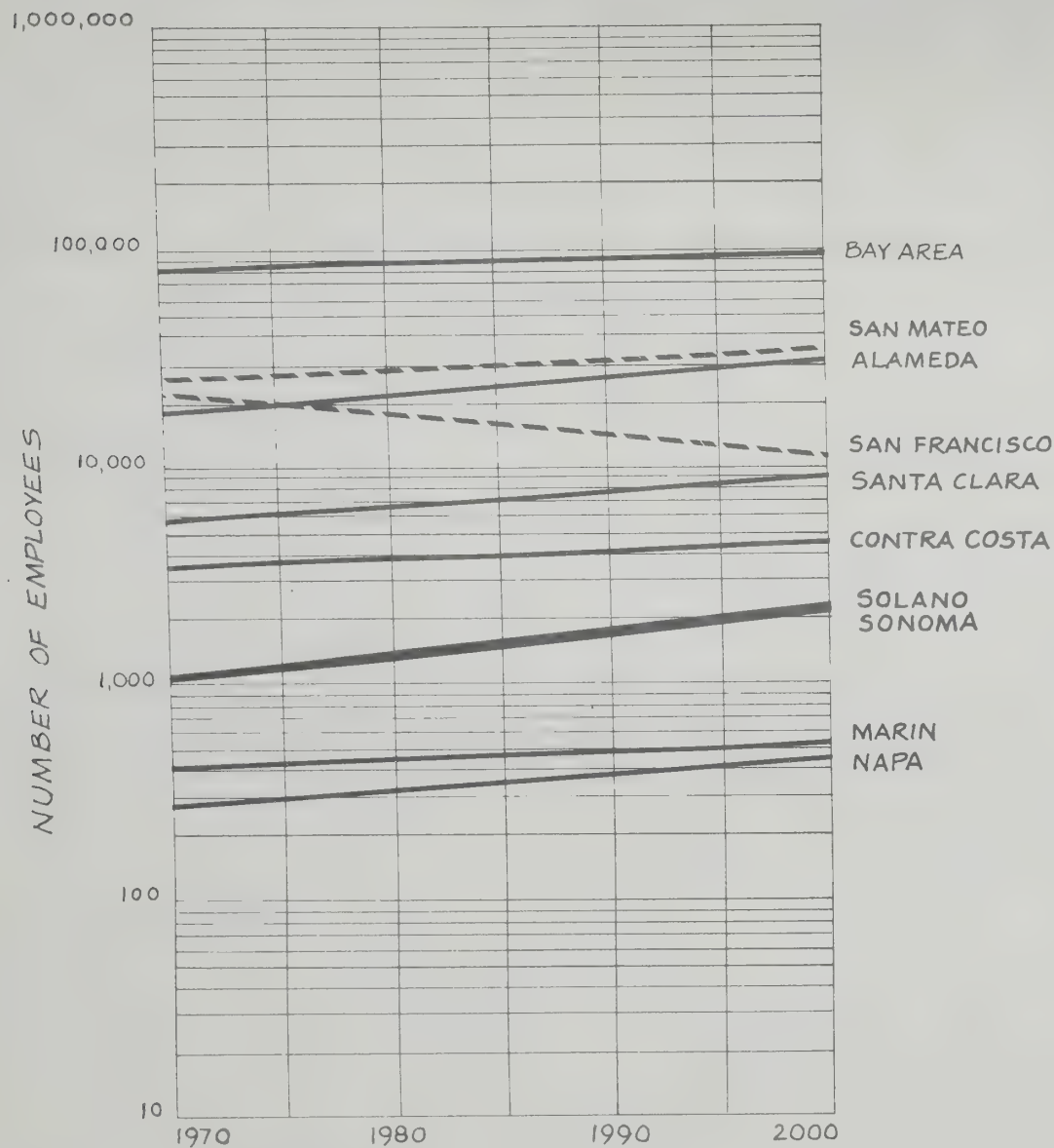
L D TRANS SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	24.45	25.84	27.21	28.55	29.85	31.12	32.34
CNTRA CSTA	4.37	4.51	4.63	4.74	4.83	4.91	4.98
MARIN	.52	.52	.53	.53	.53	.54	.54
NAPA	.36	.37	.40	.42	.45	.47	.50
SAN FRANCISCO	26.82	24.39	22.08	19.92	17.92	16.07	14.36
SAN MATEO	33.77	33.96	34.02	33.96	33.79	33.52	33.15
SANTA CLARA	7.05	7.46	7.86	8.25	8.64	9.02	9.39
SOLANO	1.36	1.51	1.68	1.86	2.04	2.23	2.44
SONOMA	1.30	1.44	1.60	1.76	1.93	2.12	2.31

L D TRANS SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	4.12	3.77	3.46	3.35	3.23	3.11	3.00
ALAMEDA	4.33	4.18	4.05	4.13	4.18	4.24	4.28
CNTRA CSTA	2.43	2.21	2.01	1.93	1.84	1.75	1.66
MARIN	.74	.66	.59	.57	.54	.51	.48
NAPA	1.06	.97	.92	.91	.91	.88	.85
SAN FRANCISCO	4.24	3.71	3.24	2.99	2.74	2.51	2.29
SAN MATEO	12.22	11.31	10.50	10.21	9.88	9.54	9.17
SANTA CLARA	1.37	1.28	1.19	1.18	1.15	1.13	1.10
SOLANO	1.92	1.90	1.87	1.94	1.97	2.00	2.00
SONOMA	1.57	1.52	1.49	1.52	1.55	1.57	1.58

Fig. A.1.8

EMPLOYMENT TRENDS

LONG DISTANCE TRANSPORTATION



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL

- - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.23
Employment Growth Analysis
Long Distance Transportation

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Fast	73.96
Contra Costa	Average	8.16
Marin	Average	.65
Napa	Fast	1.23
San Francisco	Very Slow	n.a.
San Mateo	Average	29.86
Santa Clara	Fast	21.70
Solano	Very Fast	8.10
Sonoma	Very Fast	7.64

Employment increased slightly in the region and all counties except San Francisco.

The projected relative growth rates were increased substantially over the base period growth rates for Contra Costa and Sonoma; increased slightly for San Francisco; and decreased substantially in San Mateo and Solano.

*2009

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

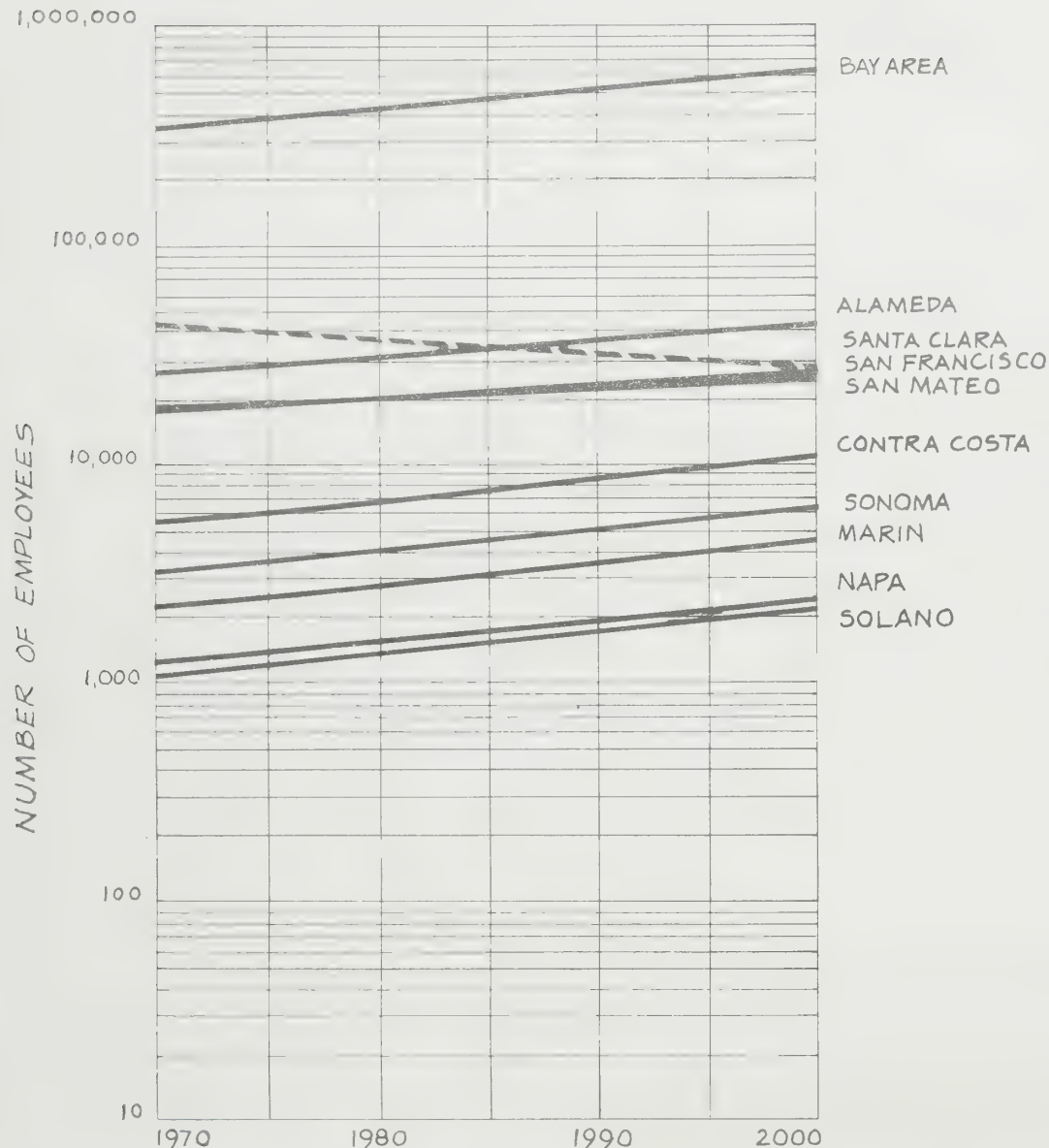
Table A.1.25: WHOLESALE TRADE

COUNTY	WHOL TRAD EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	120.58	123.95	127.22	132.69	138.31	145.79	153.16
ALAMEDA	26.81	28.62	30.39	32.67	34.96	37.71	40.40
CNTRA CSTA	5.57	6.24	6.96	7.86	8.84	10.01	11.27
MARIN	2.32	2.60	2.90	3.27	3.68	4.17	4.69
NAPA	1.38	1.53	1.68	1.87	2.06	2.30	2.55
SAN FRNC SO	41.23	38.83	36.37	34.49	32.57	30.99	29.29
SAN MATEO	19.47	20.48	21.42	22.69	23.92	25.42	26.83
SNTA CLARA	19.47	20.79	22.07	23.72	25.39	27.39	29.34
SOLANO	1.13	1.27	1.42	1.60	1.80	2.04	2.30
SONOMA	3.20	3.59	4.01	4.52	5.09	5.76	6.49

WHOL TRAD SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	22.23	23.09	23.89	24.62	25.28	25.87	26.38
CNTRA CSTA	4.62	5.03	5.47	5.92	6.39	6.87	7.36
MARIN	1.92	2.10	2.28	2.46	2.66	2.86	3.06
NAPA	1.14	1.23	1.32	1.41	1.49	1.58	1.66
SAN FRNC SO	34.19	31.33	28.59	25.99	23.55	21.26	19.12
SAN MATEO	16.15	16.52	16.84	17.10	17.29	17.44	17.52
SNTA CLARA	16.15	16.77	17.35	17.88	18.36	18.79	19.16
SOLANO	.94	1.02	1.12	1.21	1.30	1.40	1.50
SONOMA	2.65	2.90	3.15	3.41	3.68	3.95	4.24

WHOL TRAD SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	6.11	5.80	5.50	5.36	5.17	4.96	4.74
ALAMEDA	5.83	5.75	5.66	5.70	5.68	5.62	5.52
CNTRA CSTA	3.81	3.80	3.79	3.87	3.90	3.90	3.87
MARIN	4.09	4.10	4.10	4.22	4.29	4.32	4.33
NAPA	5.04	4.95	4.84	4.86	4.78	4.68	4.53
SAN FRNC SO	8.00	7.33	6.68	6.25	5.78	5.29	4.82
SAN MATEO	8.65	8.47	8.27	8.23	8.10	7.91	7.67
SNTA CLARA	4.65	4.43	4.19	4.08	3.92	3.75	3.56
SOLANO	1.96	1.98	1.98	2.02	2.02	2.00	1.95
SONOMA	4.74	4.70	4.65	4.71	4.71	4.67	4.59

Fig. A 1.9
EMPLOYMENT TRENDS
WHOLESALE TRADE



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.26
Employment Growth Analysis
Wholesale Trade

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Fast	41.71
Contra Costa	Very Fast	17.50
Marin	Very Fast	7.27
Napa	Fast	3.59
San Francisco	Very Slow	n.a.
San Mateo	Average	22.59
Santa Clara	Fast	30.29
Solano	Very Fast	3.59
Sonoma	Very Fast	10.10

Employment increases moderately in the region and all counties except San Francisco.

The projected relative growth rates were increased slightly over the base period growth rates for Alameda, San Francisco and Sonoma; and decreased substantially for Marin, San Mateo and Santa Clara.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.27: WHOLESALE TRADE

PROJECTIONS OF WHOL TRAD EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE INCR OF TOT. INCR (PCT)	PERCENT SHARE GROWTH 1970-*. (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000			1970	2000	1970	2000	1960-69	1970-*. 1970-*	1960-69	1970-*. 1970-*	1970-*. 1970-*
BAY AREA 9	120.58	153.16	32.58	100.00	27.02	100.00	100.00	6.11	4.74	2.03	.80	0.	0.
ALAMEDA	26.81	40.40	13.59	41.71	50.69	22.23	26.38	5.83	5.52	1.55	1.38	-.47	.57
CNTRA. CSTA	5.57	11.27	5.70	17.50	102.33	4.62	7.36	3.81	3.87	3.91	2.38	1.85	1.56
MARIN	2.32	4.69	2.37	7.27	102.16	1.92	3.06	4.09	4.33	5.75	2.37	3.65	1.56
NAPA	1.38	2.55	1.17	3.59	84.78	1.14	1.66	5.04	4.53	3.76	2.07	1.69	1.26
SAN FRNCISO	41.23	29.29	-11.94	-36.65	-28.96	34.19	19.12	8.00	4.82	-1.12	-1.13	-3.08	-1.92
SAN MATEO	19.47	26.83	7.36	22.59	37.80	16.15	17.52	8.65	7.67	9.32	1.07	7.14	.27
SANTA CLARA	19.47	29.34	9.87	30.29	50.69	16.15	19.16	4.65	3.56	8.02	1.38	5.87	.57
SOLANO	1.13	2.38	1.17	3.59	183.54	.94	1.58	1.96	1.95	4.43	2.48	2.35	1.58
SONOMA	3.20	6.49	3.29	10.10	102.81	2.65	4.24	4.74	4.59	2.47	2.39	.44	1.57

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.28: NATIONAL FINANCE AND INSURANCE

COUNTY	NT FIN. IN EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	41.37	42.29	43.61	45.26	47.03	51.39	55.98
ALAMEDA	5.61	5.80	6.06	6.36	6.68	7.38	8.12
CNTRA CSTA	.81	.83	.85	.88	.91	.99	1.07
MARIN	.49	.51	.53	.56	.59	.65	.71
NAPA	.05	.05	.06	.06	.07	.08	.09
SAN FRANCISCO	27.15	27.42	27.92	28.60	29.31	31.57	33.90
SAN MATEO	2.18	2.37	2.60	2.87	3.17	3.68	4.25
SANTA CLARA	3.74	3.87	4.04	4.24	4.45	4.92	5.41
SOLANO	.26	.26	.26	.27	.28	.30	.32
SONOMA	1.08	1.18	1.29	1.42	1.57	1.82	2.11

NT FIN. IN SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	13.56	13.71	13.90	14.05	14.20	14.36	14.51
CNTRA CSTA	1.96	1.96	1.95	1.94	1.93	1.93	1.91
MARIN	1.18	1.21	1.22	1.24	1.25	1.26	1.27
NAPA	.12	.12	.14	.13	.15	.16	.16
SAN FRANCISCO	65.63	64.84	64.02	63.19	62.32	61.43	60.56
SAN MATEO	5.27	5.60	5.96	6.34	6.74	7.16	7.59
SANTA CLARA	9.04	9.15	9.26	9.37	9.46	9.57	9.66
SOLANO	.63	.61	.60	.60	.60	.58	.57
SONOMA	2.61	2.79	2.96	3.14	3.34	3.54	3.77

NT FIN. IN SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	2.10	1.98	1.88	1.83	1.76	1.75	1.73
ALAMEDA	1.22	1.17	1.13	1.11	1.08	1.10	1.11
CNTRA CSTA	.55	.50	.46	.43	.40	.39	.37
MARIN	.86	.80	.75	.72	.69	.67	.65
NAPA	.18	.16	.17	.16	.16	.16	.16
SAN FRANCISCO	5.27	5.18	5.13	5.18	5.20	5.39	5.58
SAN MATEO	.97	.98	1.00	1.04	1.07	1.14	1.21
SANTA CLARA	.89	.82	.77	.73	.69	.67	.66
SOLANO	.45	.41	.36	.34	.31	.29	.27
SONOMA	1.60	1.54	1.50	1.48	1.45	1.47	1.49

Fig A.1.10

EMPLOYMENT TRENDS

NATIONAL FINANCE & INSURANCE

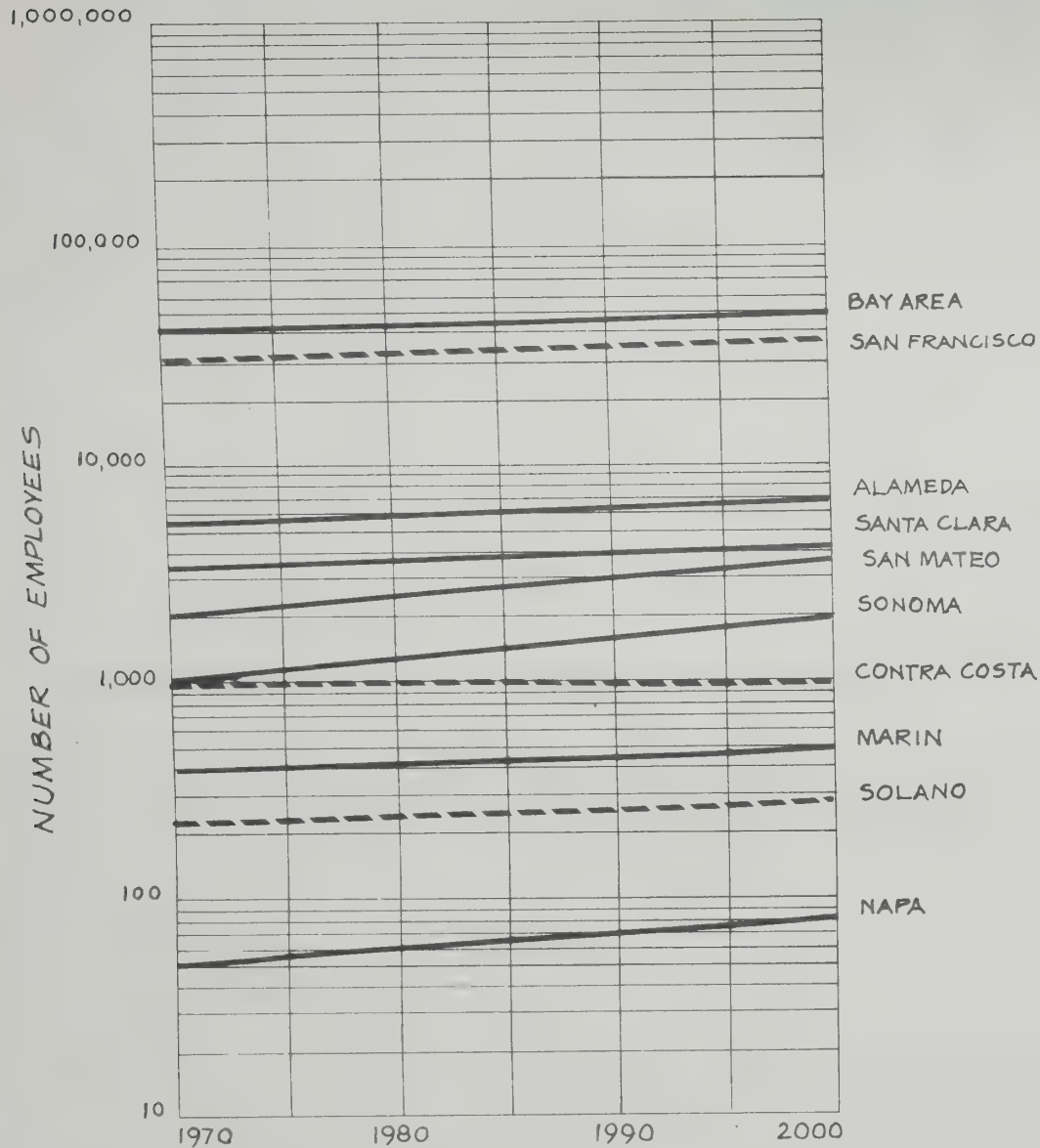


Table A.1.29
Employment Growth Analysis
National Finance and Insurance

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	17.18
Contra Costa	Average	1.78
Marin	Average	1.51
Napa	Fast	.27
San Francisco	Average	46.20
San Mateo	Fast	14.17
Santa Clara	Average	11.43
Solano	Average	.41
Sonoma	Fast	7.05

Employment grows slowly in the region and all counties; and slowest in San Francisco, Contra Costa and Solano.

The projected relative growth rates were increased substantially over the case period growth rates for Alameda; increased slightly for Solano; decreased substantially for Napa, San Mateo and Sonoma; and decreased slightly for Santa Clara.

ABAG/MTC/DOH Employment Projections
 Series C.1: Target Year Specific - Industries

Table A.1.30: NATIONAL FINANCE AND INSURANCE

PROJECTIONS OF NT FIN.IN EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE OF TOT.INCR	PERCENT GROWTH	SHARE OF REG.TOT FOR INDUSTRY(PCT)		SHARE OF COUNTY EMPLOYMENT(PCT)		GROWTH RATE ----(PCT/YR)----		GROWTH RATE RELATIVE TO REG.GRWTH(PCT/YR)		
	1970	2000			1970-%	1970	2000	1970	2000	1960-69	1970-%	1960-69	1970-%
BAY AREA 9	41.37	55.98	14.61	100.00	35.32	100.00	100.00	2.10	1.73	3.07	1.01	0.	0.
ALAMEDA	5.61	8.12	2.51	17.18	44.74	13.56	14.51	1.22	1.11	.20	1.24	-2.79	.22
CONTRA COSTA	.81	1.07	.26	1.78	32.10	1.96	1.91	.55	.37	3.78	.93	.69	-.08
MARIN	.49	.71	.22	1.51	44.90	1.18	1.27	.86	.65	2.47	1.24	-.58	.23
NAPA	.05	.09	.04	.27	80.00	.12	.16	.18	.16	9.55	1.98	6.29	.96
SAN FRANCISCO	27.15	33.90	6.75	46.20	24.86	65.63	60.56	5.27	5.58	2.75	.74	-.31	-.27
SAN MATEO	2.18	4.25	2.07	14.17	94.95	5.27	7.59	.97	1.21	7.07	2.25	3.88	1.22
SANTA CLARA	3.74	5.41	1.67	11.43	44.65	9.04	9.66	.89	.66	5.16	1.24	2.03	.22
SOLANO	.26	.32	.06	.41	23.08	.63	.57	.45	.27	.89	.69	-2.12	-.32
SONOMA	1.08	2.11	1.03	7.05	95.37	2.61	3.77	1.60	1.49	21.39	2.26	17.77	1.23

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

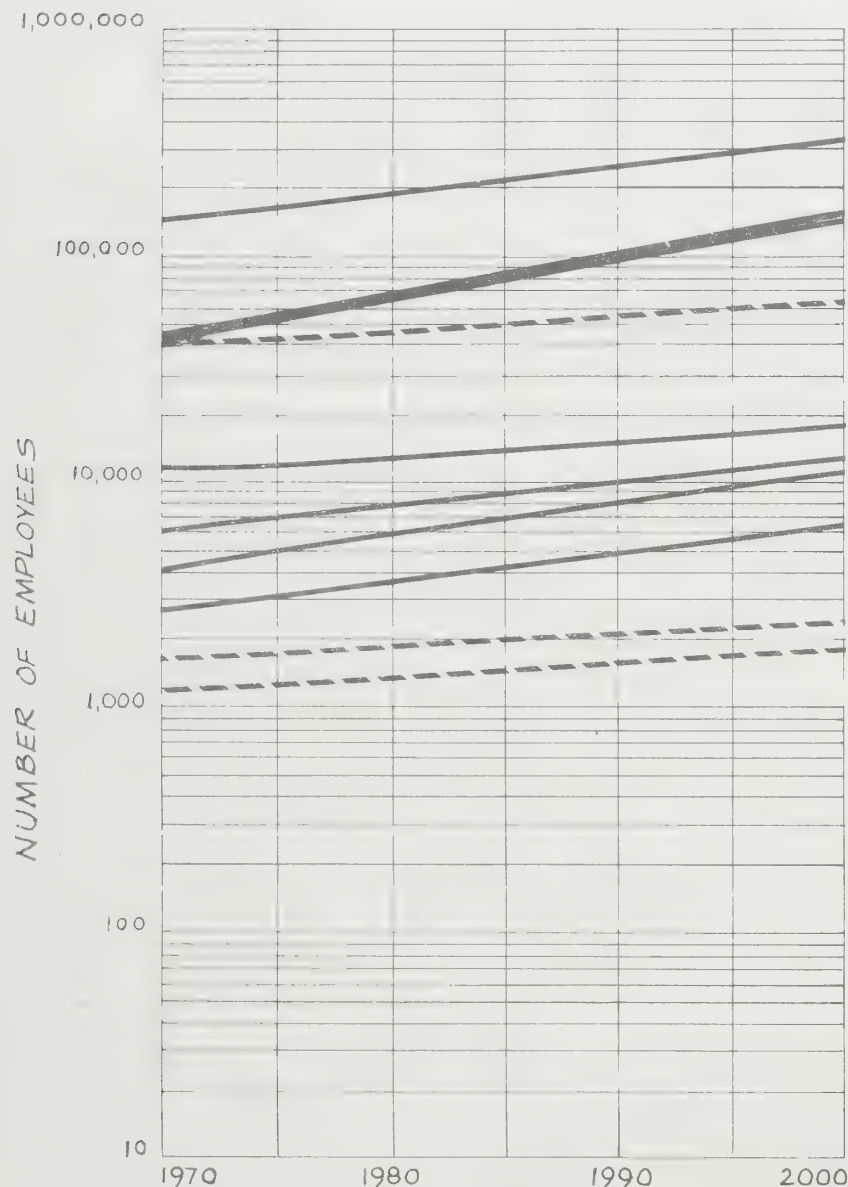
Table A.1.31: INSTITUTIONAL SERVICES

COUNTY	INST SERV EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	158.77	179.15	203.64	231.00	263.13	301.58	344.80
ALAMEDA	43.48	50.08	58.05	67.06	77.72	90.54	105.11
CNTRA CSTA	6.08	7.00	8.11	9.37	10.86	12.65	14.69
MARIN	4.51	5.20	6.02	6.96	8.06	9.39	10.90
NAPA	1.89	1.97	2.06	2.16	2.26	2.38	2.50
SAN FRANCISCO	40.42	43.20	46.46	49.81	53.56	57.90	62.37
SAN MATEO	13.98	16.10	18.66	21.56	24.99	29.11	33.79
SANTA CLARA	44.26	50.98	59.09	68.26	79.11	92.16	106.99
SOLANO	1.44	1.50	1.58	1.65	1.73	1.82	1.91
SONOMA	2.71	3.12	3.61	4.17	4.84	5.63	6.54

INST SERV SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	27.39	27.95	28.51	29.03	29.54	30.02	30.48
CNTRA CSTA	3.83	3.91	3.98	4.06	4.13	4.19	4.26
MARIN	2.84	2.90	2.96	3.01	3.06	3.11	3.16
NAPA	1.19	1.10	1.01	.94	.86	.79	.73
SAN FRANCISCO	25.46	24.11	22.81	21.56	20.35	19.20	18.09
SAN MATEO	8.81	8.99	9.16	9.33	9.50	9.65	9.80
SANTA CLARA	27.88	28.46	29.02	29.55	30.06	30.56	31.03
SOLANO	.91	.84	.78	.71	.66	.60	.55
SONOMA	1.71	1.74	1.77	1.81	1.84	1.87	1.90

INST SERV SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	8.04	8.38	8.80	9.33	9.84	10.27	10.68
ALAMEDA	9.46	10.06	10.80	11.70	12.62	13.48	14.36
CNTRA CSTA	4.16	4.26	4.41	4.61	4.79	4.93	5.05
MARIN	7.96	8.19	8.51	8.97	9.39	9.73	10.05
NAPA	6.90	6.38	5.93	5.62	5.25	4.84	4.44
SAN FRANCISCO	7.85	8.16	8.53	9.03	9.50	9.89	10.26
SAN MATEO	6.21	6.66	7.20	7.82	8.46	9.06	9.65
SANTA CLARA	10.58	10.86	11.22	11.73	12.23	12.62	12.98
SOLANO	2.50	2.34	2.21	2.08	1.94	1.78	1.62
SONOMA	4.01	4.08	4.19	4.34	4.48	4.56	4.63

Fig A.1.11
EMPLOYMENT TRENDS
INSTITUTIONAL SERVICES



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
-- DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.32
Employment Growth Analysis
Institutional Services

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	33.13
Contra Costa	Average	4.63
Marin	Average	3.43
Napa	Very Slow	.33
San Francisco	Slow	11.80
San Mateo	Average	10.65
Santa Clara	Average	33.72
Solano	Very Slow	.25
Sonoma	Average	2.06

Employment doubled in the region and all counties except San Francisco, Napa and Solano, which grew more slowly.

The projected relative growth rates were increased slightly over the base period growth rates for Alameda, Napa, Sonoma and Solano; and decreased substantially for Contra Costa, Marin and Santa Clara.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.33: INSTITUTIONAL SERVICES

PROJECTIONS OF INST SERV EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR		PERCENT SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.	OF TOT. INCR	GROWTH	FOR INDUSTRY (PCT)	EMPLOYMENT (PCT)	1970	2000	1960-69	1970-*	1960-69	1970-*
BAY AREA 9	158.77	344.80	186.03	100.00	117.17	100.00	100.00	8.04	10.68	7.83	2.62	0.	0.
ALAMEDA	43.48	105.11	61.63	33.13	141.74	27.39	30.48	9.46	14.36	7.08	2.99	-.70	.36
CNTRA CSTA	6.08	14.69	8.61	4.63	141.61	3.83	4.26	4.16	5.05	10.95	2.98	2.90	.36
MARIN	4.51	10.90	6.39	3.43	141.69	2.84	3.16	7.96	10.05	18.82	2.99	10.19	.36
NAPA	1.89	2.50	.61	.33	32.28	1.19	.73	6.90	4.44	4.30	.94	-3.27	-1.64
SAN FRNC SO	40.42	62.37	21.95	11.80	54.30	25.46	18.09	7.85	10.26	5.69	1.46	-1.98	-1.13
SAN MATEO	13.98	33.79	19.81	10.65	141.70	8.81	9.80	6.21	9.65	8.81	2.99	.91	.36
SNTA CLARA	44.26	106.99	62.73	33.72	141.73	27.88	31.03	10.58	12.98	10.95	2.99	2.90	.36
SOLANO	1.44	1.91	.47	.25	32.64	.91	.55	2.50	1.62	4.00	.95	-3.55	-1.63
SONOMA	2.71	6.54	3.83	2.06	141.33	1.71	1.90	4.01	4.63	7.12	2.98	-.66	.35

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.34: FEDERAL AND STATE GOVERNMENT

COUNTY	F.S GOV EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	134.00	143.30	156.11	157.12	158.89	163.34	167.79
ALAMEDA	34.84	37.32	40.69	41.12	41.74	43.10	44.46
CNTRA CSTA	3.26	3.49	3.81	3.79	3.79	3.86	3.92
MARIN	3.40	3.64	3.97	3.95	3.96	4.03	4.09
NAPA	3.30	3.54	3.85	3.84	3.84	3.91	3.97
SAN FRNC SO	48.66	52.39	57.41	57.46	57.77	59.09	60.38
SAN MATEO	7.57	8.11	8.84	8.81	8.81	8.97	9.12
SNTA CLARA	11.83	13.32	15.26	15.98	16.80	17.97	19.20
SOLANO	17.48	17.37	17.56	17.22	16.98	16.85	16.71
SONOMA	3.66	4.12	4.72	4.95	5.20	5.56	5.94

F.S GOV SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	26.00	26.04	26.06	26.17	26.27	26.39	26.50
CNTRA CSTA	2.43	2.44	2.44	2.41	2.39	2.36	2.34
MARIN	2.54	2.54	2.54	2.51	2.49	2.47	2.44
NAPA	2.46	2.47	2.47	2.44	2.42	2.39	2.37
SAN FRNC SO	36.31	36.56	36.78	36.57	36.36	36.18	35.99
SAN MATEO	5.65	5.66	5.66	5.61	5.54	5.49	5.44
SNTA CLARA	8.83	9.30	9.78	10.17	10.57	11.00	11.44
SOLANO	13.04	12.12	11.25	10.96	10.69	10.32	9.96
SONOMA	2.73	2.88	3.02	3.15	3.27	3.40	3.54

F.S GOV SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	6.79	6.70	6.74	6.34	5.94	5.56	5.20
ALAMEDA	7.58	7.50	7.57	7.17	6.78	6.42	6.07
CNTRA CSTA	2.23	2.12	2.07	1.86	1.67	1.50	1.35
MARIN	6.00	5.74	5.61	5.09	4.61	4.18	3.77
NAPA	12.05	11.46	11.08	9.99	8.91	7.96	7.05
SAN FRNC SO	9.44	9.89	10.54	10.41	10.25	10.09	9.93
SAN MATEO	3.36	3.35	3.41	3.20	2.98	2.79	2.61
SNTA CLARA	2.83	2.84	2.90	2.75	2.60	2.46	2.33
SOLANO	30.29	27.10	24.53	21.72	19.05	16.48	14.17
SONOMA	5.42	5.39	5.48	5.15	4.82	4.50	4.20

Fig. A. 1. 12

EMPLOYMENT TRENDS

FEDERAL AND STATE GOVERNMENT

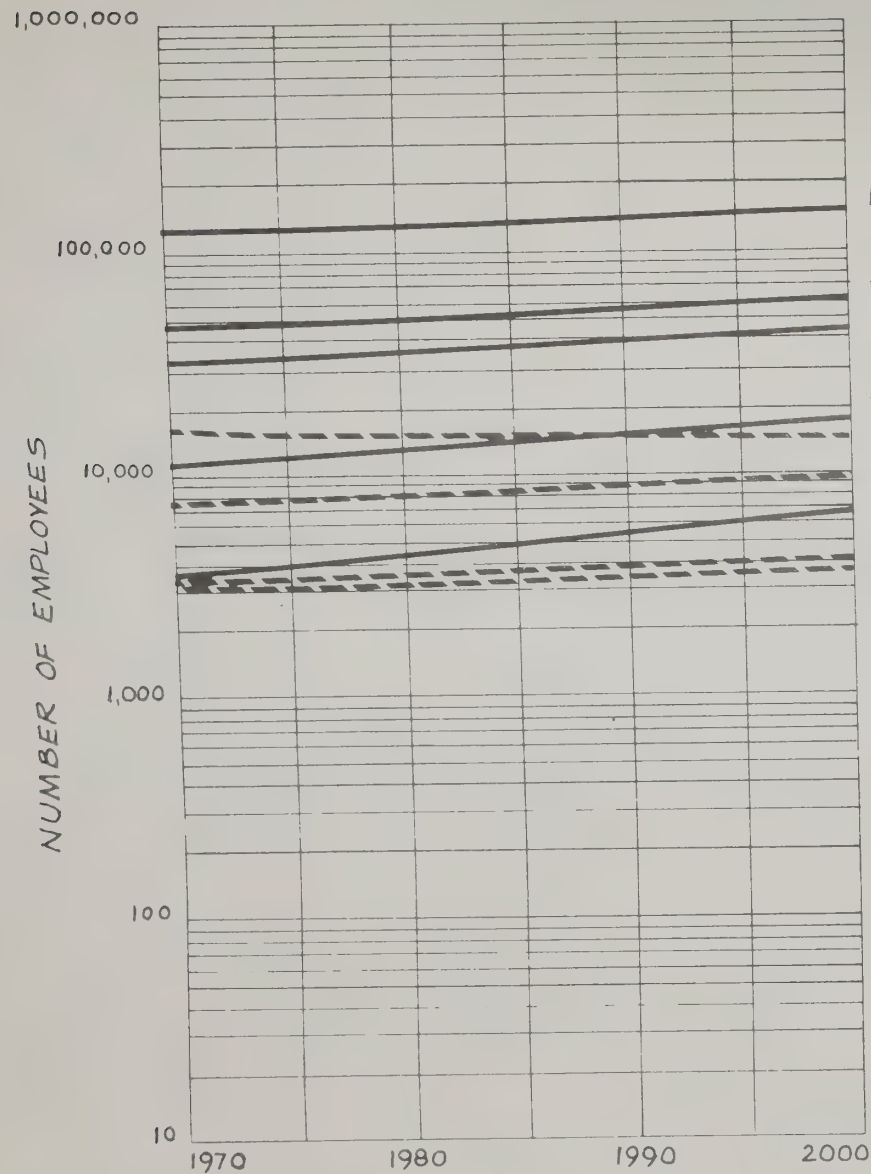


Table A.1.35
Employment Growth Analysis
Federal and State Government

County	Relative Growth Rate	Percentage Share of Regional Growth
BAY AREA		
Alameda	Average	28.47
SAN FRANCISCO		
Contra Costa	Average	1.95
ALAMEDA		
Marin	Average	2.04
SANTA CLARA		
Napa	Average	1.98
SOLANO		
SAN MATEO	Average	34.68
SONOMA		
San Mateo	Average	4.59
MARIN		
CONTRA COSTA AND NAPA		
Santa Clara	Fast	21.81
Solano	Slow	n.a.
Sonoma	Fast	6.75

Employment increased somewhat in the region and all counties except San Francisco, San Mateo, Marin, Solano, Napa and Contra Costa.

The projected relative growth rates were increased slightly over the case period growth rates for San Francisco, Solano and Sonoma; decreased substantially for Contra Costa and San Mateo; and decreased slightly for Marin and Santa Clara.

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.36: FEDERAL AND STATE GOVERNMENT

PROJECTIONS OF F+S GOV EMPLOYMENT FOR 2000

	EMPLOYMENT (THOUSANDS)		SHARE OF TOT. INCR (PCT)	PERCENT GROWTH 1970-80	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000			1970	2000	1970	2000	1960-69	1970-80	1960-69	1970-80
BAY AREA 9	134.00	167.79	33.79	100.00	25.22	100.00	100.00	6.79	5.20	3.18	.75	0.
ALAMEDA	34.84	44.46	9.62	28.47	27.61	26.00	26.50	7.58	6.07	3.49	.82	.30
CONTRA COSTA	3.26	3.92	.66	1.95	20.25	2.43	2.34	2.23	1.35	11.85	.62	8.40
MARIN	3.40	4.09	.69	2.04	20.29	2.54	2.44	6.00	3.77	4.90	.62	1.67
NAPA	3.30	3.97	.67	1.98	20.30	2.46	2.37	12.05	7.05	3.80	.62	.61
SAN FRANCISCO	48.66	60.38	11.72	34.68	24.09	36.31	35.99	9.44	9.93	2.10	.72	-1.04
SAN MATEO	7.57	9.12	1.55	4.59	20.48	5.65	5.44	1.35	2.61	6.90	.62	3.61
SANTA CLARA	11.93	19.20	7.37	21.81	62.30	8.83	11.44	2.83	2.33	5.50	1.63	2.25
SOLANO	17.48	16.71	-.77	-2.28	-4.41	13.04	9.96	30.29	14.17	1.19	-.15	-1.94
SONOMA	3.66	5.94	2.28	6.75	62.30	2.73	3.54	5.42	4.20	2.83	1.63	-.33

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

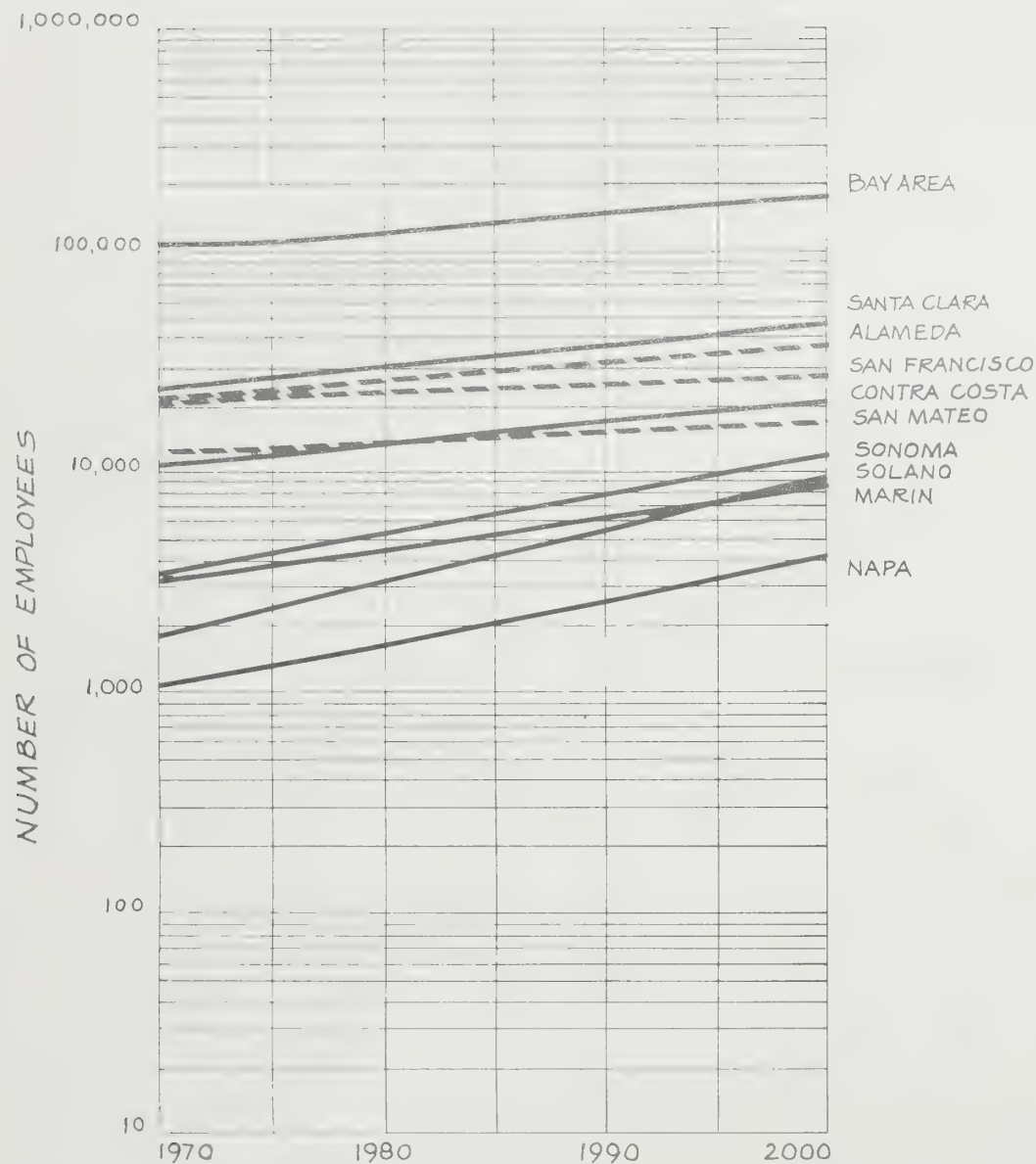
Table A.1.37: CONSTRUCTION

COUNTY	CONSTR	EMPLOYMENT (THOUSANDS)					
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	101.44	117.38	135.10	145.88	157.93	172.19	188.51
ALAMEDA	22.32	25.59	29.11	30.99	33.00	35.28	37.77
CNTRA CSTA	10.91	12.84	14.98	16.36	17.87	19.60	21.53
MARIN	3.27	4.03	4.94	5.66	6.49	7.48	8.62
NAPA	1.15	1.50	1.94	2.35	2.84	3.45	4.20
SAN FRANCISCO	22.00	24.19	26.38	26.92	27.47	28.16	28.90
SAN MATEO	13.75	15.12	16.51	16.87	17.23	17.68	18.16
SANTA CLARA	22.67	27.14	32.25	35.86	39.88	44.52	49.78
SOLANO	1.90	2.59	3.50	4.43	5.60	7.12	9.06
SONOMA	3.47	4.38	5.49	6.44	7.55	8.90	10.49

COUNTY	CONSTR	SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)					
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	22.00	21.80	21.55	21.24	20.90	20.49	20.04
CNTRA CSTA	10.76	10.94	11.09	11.21	11.32	11.38	11.42
MARIN	3.22	3.43	3.66	3.88	4.11	4.34	4.57
NAPA	1.13	1.28	1.44	1.61	1.80	2.00	2.23
SAN FRANCISCO	21.69	20.61	19.53	18.45	17.39	16.35	15.33
SAN MATEO	13.55	12.88	12.22	11.56	10.91	10.27	9.63
SANTA CLARA	22.35	23.12	23.87	24.58	25.25	25.86	26.41
SOLANO	1.87	2.21	2.59	3.04	3.55	4.13	4.81
SONOMA	3.42	3.73	4.06	4.41	4.78	5.17	5.56

COUNTY	CONSTR	SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)					
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	5.14	5.49	5.84	5.89	5.90	5.86	5.84
ALAMEDA	4.85	5.14	5.42	5.41	5.36	5.25	5.16
CNTRA CSTA	7.46	7.81	8.15	8.05	7.88	7.63	7.40
MARIN	5.77	6.35	6.98	7.30	7.56	7.75	7.95
NAPA	4.20	4.86	5.58	6.11	6.59	7.02	7.46
SAN FRANCISCO	4.27	4.57	4.84	4.88	4.87	4.81	4.75
SAN MATEO	6.11	6.25	6.37	6.12	5.83	5.50	5.19
SANTA CLARA	5.42	5.78	6.12	6.16	6.16	6.10	6.04
SOLANO	3.29	4.04	4.89	5.59	6.28	6.96	7.68
SONOMA	5.14	5.73	6.37	6.71	6.99	7.21	7.42

Fig. A 1.13
EMPLOYMENT TRENDS
CONSTRUCTION



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
- - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.58
Employment Growth Analysis
Construction

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	17.71
Contra Costa	Average	17.73
Marin	Fast	6.14
Napa	Very Fast	3.50
San Francisco	Slow	7.92
San Mateo	Slow	5.06
Santa Clara	Fast	31.14
Solano	Very Fast	8.22
Sonoma	Very Fast	8.06

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.39: CONSTRUCTION

PROJECTIONS OF CONSTR EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE INCR OF TOT. INCR	PERCENT (PCT)	GROWTH FOR INDUSTRY (PCT)		SHARE OF REG. TOT EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000			1970-*	2000	1970	2000	1960-69	1970-*	1960-69	1970-*	
BAY AREA 9	101.44	188.51	87.07	100.00	85.83	100.00	100.00	5.14	5.84	1.23	2.09	0.	0.
ALAMEDA	22.32	37.77	15.45	17.74	69.22	22.00	20.04	4.85	5.16	.62	1.77	-.60	-.31
CNTRA CSTA	10.91	21.53	10.62	12.20	97.34	10.76	11.42	7.46	7.40	2.28	2.29	1.04	.20
MARIN	3.27	8.62	5.35	6.14	163.61	3.22	4.57	5.77	7.95	-1.40	3.28	-2.60	1.17
NAPA	1.15	4.20	3.05	3.50	265.22	1.13	2.23	4.20	7.46	2.31	4.41	1.07	2.28
SAN FRNCSCO	22.00	28.90	6.90	7.92	31.36	21.69	15.33	4.27	4.75	.96	.91	-.27	-1.15
SAN MATEO	13.75	18.16	4.41	5.06	32.07	13.55	9.63	6.11	5.19	.54	.93	-.68	-1.13
SANTA CLARA	22.67	49.78	27.11	31.14	119.59	22.35	26.41	5.42	6.04	2.47	2.66	1.22	.56
SOLANO	1.90	9.06	7.16	8.22	376.84	1.87	4.81	3.29	7.68	1.93	5.34	.69	3.19
SONOMA	3.47	10.49	7.02	8.06	202.31	3.42	5.56	5.14	7.42	1.38	3.76	.15	1.64

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.40: LOCAL TRANSPORTATION, COMMUNICATIONS AND UTILITIES

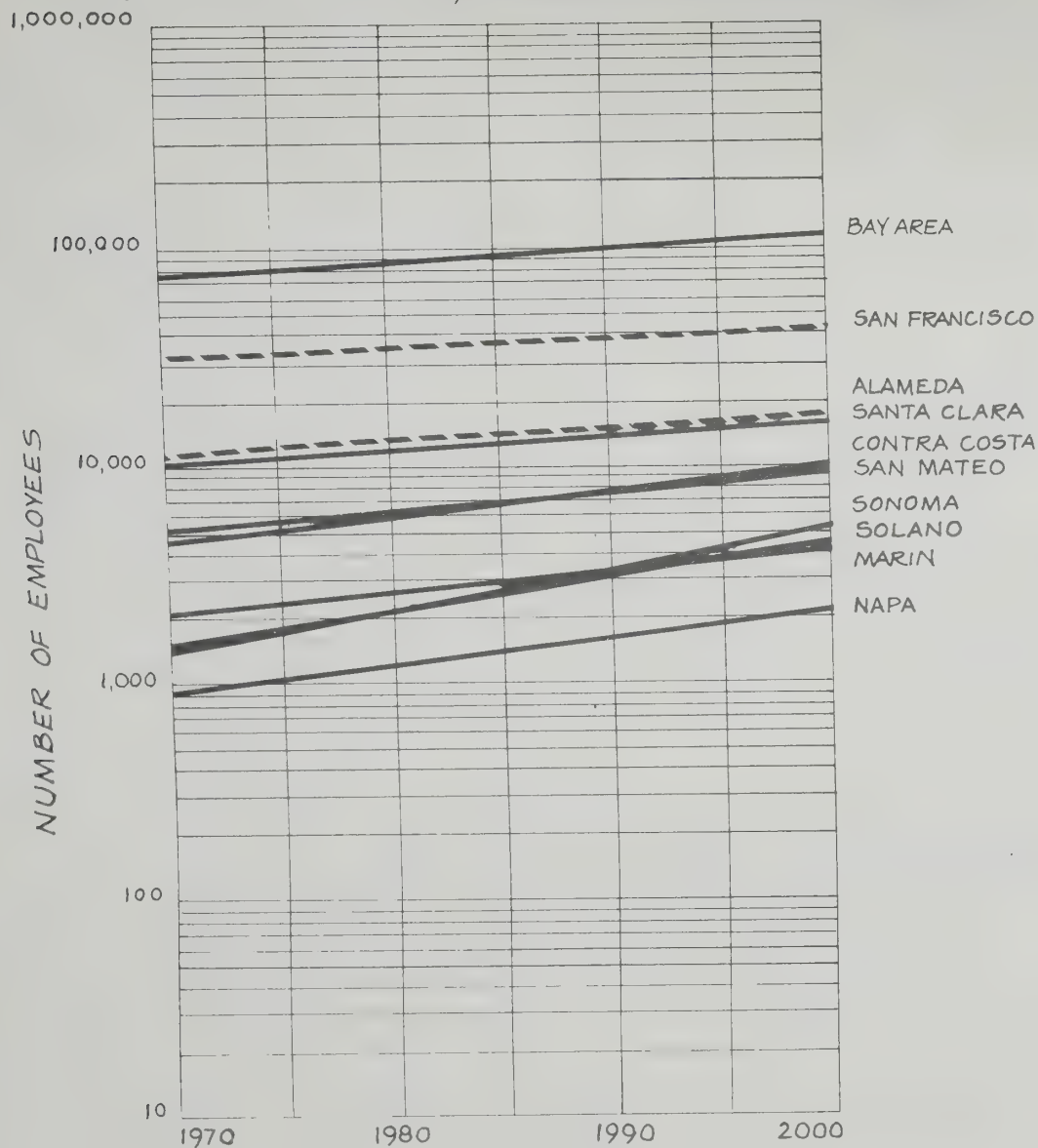
COUNTY	L TR,CM,U EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	70.35	74.71	79.73	86.37	93.71	103.52	114.14
ALAMEDA	12.67	13.39	14.20	15.27	16.42	17.95	19.55
CNTRA CSTA	4.98	5.57	6.25	7.12	8.10	9.37	10.81
MARIN	2.25	2.46	2.71	3.02	3.37	3.82	4.32
NAPA	.93	1.05	1.19	1.36	1.56	1.82	2.11
SAN FRANCISCO	30.56	31.46	32.50	34.03	35.63	37.94	40.25
SAN MATEO	5.44	5.83	6.27	6.83	7.44	8.24	9.10
SANTA CLARA	10.23	11.07	12.02	13.23	14.56	16.29	18.16
SOLANO	1.65	1.92	2.24	2.66	3.16	3.81	4.57
SONOMA	1.64	1.96	2.35	2.85	3.47	4.28	5.27

L TR,CM,U SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	18.01	17.92	17.81	17.68	17.52	17.34	17.13
CNTRA CSTA	7.08	7.46	7.84	8.24	8.64	9.05	9.47
MARIN	3.20	3.29	3.40	3.50	3.60	3.69	3.78
NAPA	1.32	1.41	1.49	1.57	1.66	1.76	1.85
SAN FRANCISCO	43.44	42.11	40.76	39.40	38.02	36.65	35.26
SAN MATEO	7.73	7.80	7.86	7.91	7.94	7.96	7.97
SANTA CLARA	14.54	14.82	15.08	15.32	15.54	15.74	15.91
SOLANO	2.35	2.57	2.81	3.08	3.37	3.68	4.00
SONOMA	2.33	2.62	2.95	3.30	3.70	4.13	4.62

L TR,CM,U SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	3.56	3.49	3.44	3.49	3.50	3.52	3.53
ALAMEDA	2.76	2.69	2.64	2.66	2.67	2.67	2.67
CNTRA CSTA	3.41	3.39	3.40	3.50	3.57	3.65	3.72
MARIN	3.97	3.88	3.83	3.89	3.92	3.96	3.98
NAPA	3.40	3.40	3.43	3.54	3.62	3.70	3.75
SAN FRANCISCO	5.93	5.94	5.97	6.17	6.32	6.48	6.62
SAN MATEO	2.42	2.41	2.42	2.48	2.52	2.56	2.60
SANTA CLARA	2.44	2.36	2.28	2.27	2.25	2.23	2.20
SOLANO	2.86	3.00	3.13	3.35	3.54	3.73	3.87
SONOMA	2.43	2.56	2.73	2.97	3.21	3.47	3.73

Fig. A.1.14
EMPLOYMENT TRENDS

LOCAL TRANSPORTATION, COMMUNICATIONS & UTILITIES



— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
 - - - DECREASING COUNTY SHARE OF REGIONAL TOTAL

Table A.1.41
Employment Growth Analysis
Local Transportation, Communications and Utilities

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	15.71
Contra Costa	Fast	13.31
Marin	Fast	4.73
Napa	Fast	2.69
San Francisco	Slow	22.13
San Mateo	Average	8.36
Santa Clara	Average	18.11
Solano	Very Fast	6.67
Sonoma	Very Fast	8.29

ABAG/MTC/DOH Employment Projections
 Series C.1: Target Year Specific - Industries

Table A.1.42: LOCAL TRANSPORTATION, COMMUNICATIONS AND UTILITIES

PROJECTIONS OF L TR,CM,U EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)		SHARE INCR OF TOT. INCR (PCT)	PERCENT GROWTH 1970-*. (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000			1970	2000	1970	2000	1960-69	1970-*. 1960-69	1960-69	1970-*. 1960-69	
BAY AREA 9	70.35	114.14	43.79	100.00	62.25	100.00	100.00	3.56	3.53	4.03	1.63	0.	0.
ALAMEDA	12.67	19.55	6.88	15.71	54.30	18.01	17.13	2.76	2.67	2.83	1.46	-1.15	-.17
CNIRA CSIA	4.98	10.81	5.83	13.31	117.07	7.08	9.47	3.41	3.72	5.90	2.62	1.79	.98
MARIN	2.25	4.32	2.07	4.73	92.00	3.20	3.78	3.97	3.98	3.86	2.20	-.16	.56
NAPA	.93	2.1	1.18	2.69	126.88	1.32	1.85	3.40	3.75	4.77	2.77	.71	1.12
SAN FRANCISCO	30.56	40.25	9.69	22.13	31.71	43.44	35.26	5.93	6.62	3.10	.92	-.90	-.69
SAN MATEO	5.44	9.10	3.66	8.36	67.28	7.73	7.97	2.42	2.60	4.40	1.73	.35	.10
SANTA CLARA	10.23	18.16	7.93	18.11	77.52	14.54	15.91	2.44	2.20	7.96	1.93	3.77	.30
SOLANO	1.65	4.57	2.92	6.67	176.97	2.35	4.00	2.86	3.87	4.01	3.45	-.02	1.80
SONOMA	1.64	5.27	3.63	8.29	221.34	2.33	4.62	2.43	3.73	3.94	3.97	-.08	2.30

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.43: RETAIL TRADE

COUNTY	RETAIL TR EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	297.44	321.63	344.83	374.35	405.35	449.24	499.95
ALAMEDA	68.33	72.34	75.83	80.38	84.86	91.56	99.06
CNTRA CSTA	28.94	32.20	35.46	39.49	43.80	49.65	56.44
MARIN	12.88	14.07	15.22	16.65	18.14	20.20	22.55
NAPA	3.91	4.62	5.42	6.42	7.57	9.13	11.03
SAN FRNC SO	64.40	66.72	68.44	70.99	73.35	77.45	82.01
SAN MATEO	34.40	36.13	37.57	39.50	41.37	44.28	47.53
SNTA CLARA	62.41	70.18	78.14	87.98	98.65	113.07	129.93
SOLANO	9.27	10.81	12.47	14.54	16.90	20.07	23.90
SONOMA	12.90	14.56	16.28	18.40	20.71	23.83	27.50

RETAIL TR SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)

BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	22.97	22.49	21.99	21.47	20.93	20.38	19.81
CNTRA CSTA	9.73	10.01	10.28	10.55	10.81	11.05	11.29
MARIN	4.33	4.37	4.41	4.45	4.48	4.50	4.51
NAPA	1.31	1.44	1.57	1.71	1.87	2.03	2.21
SAN FRNC SO	21.65	20.74	19.85	18.96	18.10	17.24	16.40
SAN MATEO	11.57	11.23	10.90	10.55	10.21	9.86	9.51
SNTA CLARA	20.98	21.82	22.66	23.50	24.34	25.17	25.99
SOLANO	3.12	3.36	3.62	3.88	4.17	4.47	4.78
SONOMA	4.34	4.53	4.72	4.92	5.11	5.30	5.50

RETAIL TR SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)

BAY AREA 9	15.07	15.04	14.90	15.11	15.15	15.30	15.48
ALAMEDA	14.86	14.53	14.11	14.02	13.78	13.63	13.53
CNTRA CSTA	19.79	19.59	19.29	19.42	19.32	19.34	19.40
MARIN	22.73	22.17	21.51	21.46	21.13	20.93	20.80
NAPA	14.28	14.96	15.60	15.70	17.57	18.58	19.59
SAN FRNC SO	12.50	12.60	12.57	12.86	13.01	13.23	13.40
SAN MATEO	15.29	14.95	14.50	14.33	14.01	13.78	13.58
SNTA CLARA	14.91	14.94	14.84	15.12	15.24	15.48	15.76
SOLANO	16.06	16.87	17.42	18.34	18.96	19.63	20.26
SONOMA	19.10	19.05	18.89	19.16	19.18	19.30	19.45

Fig A.1.15
EMPLOYMENT TRENDS

RETAIL TRADE

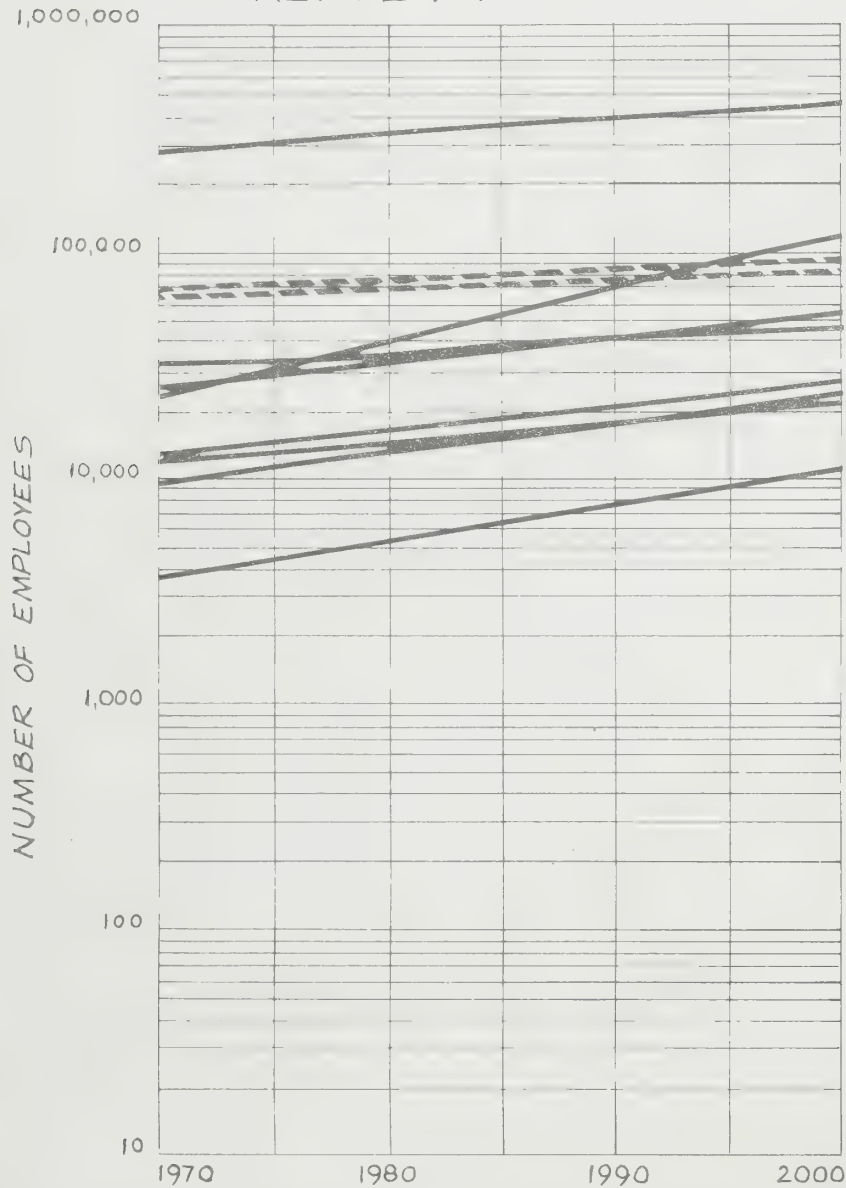


Table A.1.44
Employment Growth Analysis
Retail Trade

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	15.17
Contra Costa	Average	13.58
Marin	Average	1.78
Napa	Very Fast	3.52
San Francisco	Slow	8.70
San Mateo	Slow	6.48
Santa Clara	Fast	32.34
Solano	Fast	7.22
Sonoma	Fast	7.21

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1. 45: RETAIL TRADE

PROJECTIONS OF RETAIL TR EMPLOYMENT FOR 2000

	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR	PERCENT GROWTH	SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RFLATIVE	
	1970	2000	INCR.		1970-*. (PCT)	1970	2000	1970	2000	1960-69 (PCT/YR)	1970-*. (PCT/YR)	1960-69 TO REG. GRWTH (PCT/YR)	1970-*. (PCT/YR)
BAY AREA 9	297.44	499.95	202.51	100.00	68.08	100.00	100.00	15.07	15.48	4.31	1.75	0.	0.
ALAMEDA	68.33	99.06	30.73	15.17	44.97	22.97	19.81	14.86	13.53	3.19	1.25	-1.08	-.49
CNTRA CSTA	28.94	56.44	27.50	13.58	95.02	9.73	11.29	19.79	19.40	7.76	2.25	3.30	.50
MARIN	12.88	22.55	9.67	4.78	75.08	4.33	4.51	22.73	20.80	6.84	1.88	2.42	.14
NAPA	3.91	11.03	7.12	3.52	182.10	1.31	2.21	14.28	19.59	5.07	3.52	.73	1.74
SAN FRNCSO	64.40	82.01	17.61	8.70	27.34	21.65	16.40	12.50	13.49	.91	.81	-3.26	-.92
SAN MATEO	34.40	47.53	13.13	6.48	38.17	11.57	9.51	15.29	13.58	6.39	1.08	1.99	-.65
SNTA CLARA	62.41	129.93	67.52	33.34	108.19	20.98	25.99	14.91	15.76	7.60	2.47	3.15	.72
SOLANO	9.27	23.90	14.63	7.22	157.82	3.12	4.78	16.06	20.26	4.59	3.21	.27	1.44
SONOMA	12.90	27.50	14.60	7.21	113.18	4.34	5.50	19.10	19.45	4.93	2.56	.59	.80

*2000

ABAG/MIC/DOH Employment Projections
Series B: Industry Specific

Table A.1.46: LOCAL FINANCE, INSURANCE AND REAL ESTATE

COUNTY	LOC FIRE EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	87.35	90.71	94.21	101.76	110.11	119.66	129.78
ALAMEDA	15.28	15.77	16.27	17.42	18.65	20.01	21.39
CNTRA CSTA	4.68	5.28	5.94	6.94	8.12	9.51	11.10
MARIN	2.05	2.28	2.54	2.93	3.38	3.92	4.51
NAPA	.67	.80	.94	1.16	1.42	1.74	2.14
SAN FRANCISCO	40.63	40.99	41.29	43.18	45.16	47.35	49.43
SAN MATEO	7.48	7.70	7.91	8.44	9.01	9.63	10.26
SANTA CLARA	12.68	13.45	14.24	15.65	17.20	18.95	20.80
SOLANO	1.46	1.73	2.05	2.52	3.09	3.80	4.65
SONOMA	2.42	2.71	3.03	3.52	4.08	4.75	5.50

LOC FIRE SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	17.49	17.39	17.27	17.12	16.94	16.72	16.48
CNTRA CSTA	5.36	5.82	6.31	6.82	7.37	7.95	8.55
MARIN	2.35	2.51	2.70	2.88	3.07	3.28	3.48
NAPA	.77	.88	1.00	1.14	1.29	1.45	1.65
SAN FRANCISCO	46.51	45.19	43.83	42.43	41.01	39.57	38.09
SAN MATEO	8.56	8.49	8.40	8.29	8.18	8.05	7.91
SANTA CLARA	14.52	14.83	15.12	15.38	15.62	15.84	16.03
SOLANO	1.67	1.91	2.18	2.48	2.81	3.18	3.58
SONOMA	2.77	2.99	3.22	3.46	3.71	3.97	4.24

LOC FIRE SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	4.43	4.24	4.07	4.11	4.12	4.07	4.02
ALAMEDA	3.32	3.17	3.03	3.04	3.03	2.98	2.92
CNTRA CSTA	3.20	3.21	3.23	3.41	3.58	3.70	3.82
MARIN	3.62	3.59	3.59	3.78	3.94	4.06	4.16
NAPA	2.45	2.59	2.71	3.02	3.30	3.54	3.80
SAN FRANCISCO	7.89	7.74	7.58	7.82	8.01	8.09	8.13
SAN MATEO	3.32	3.19	3.05	3.06	3.05	3.00	2.93
SANTA CLARA	3.03	2.86	2.70	2.69	2.66	2.60	2.52
SOLANO	2.53	2.70	2.86	3.18	3.47	3.72	3.94
SONOMA	3.58	3.54	3.52	3.67	3.78	3.85	3.89

Fig A.1.16

EMPLOYMENT TRENDS

LOCAL FINANCE, INSURANCE & REAL ESTATE

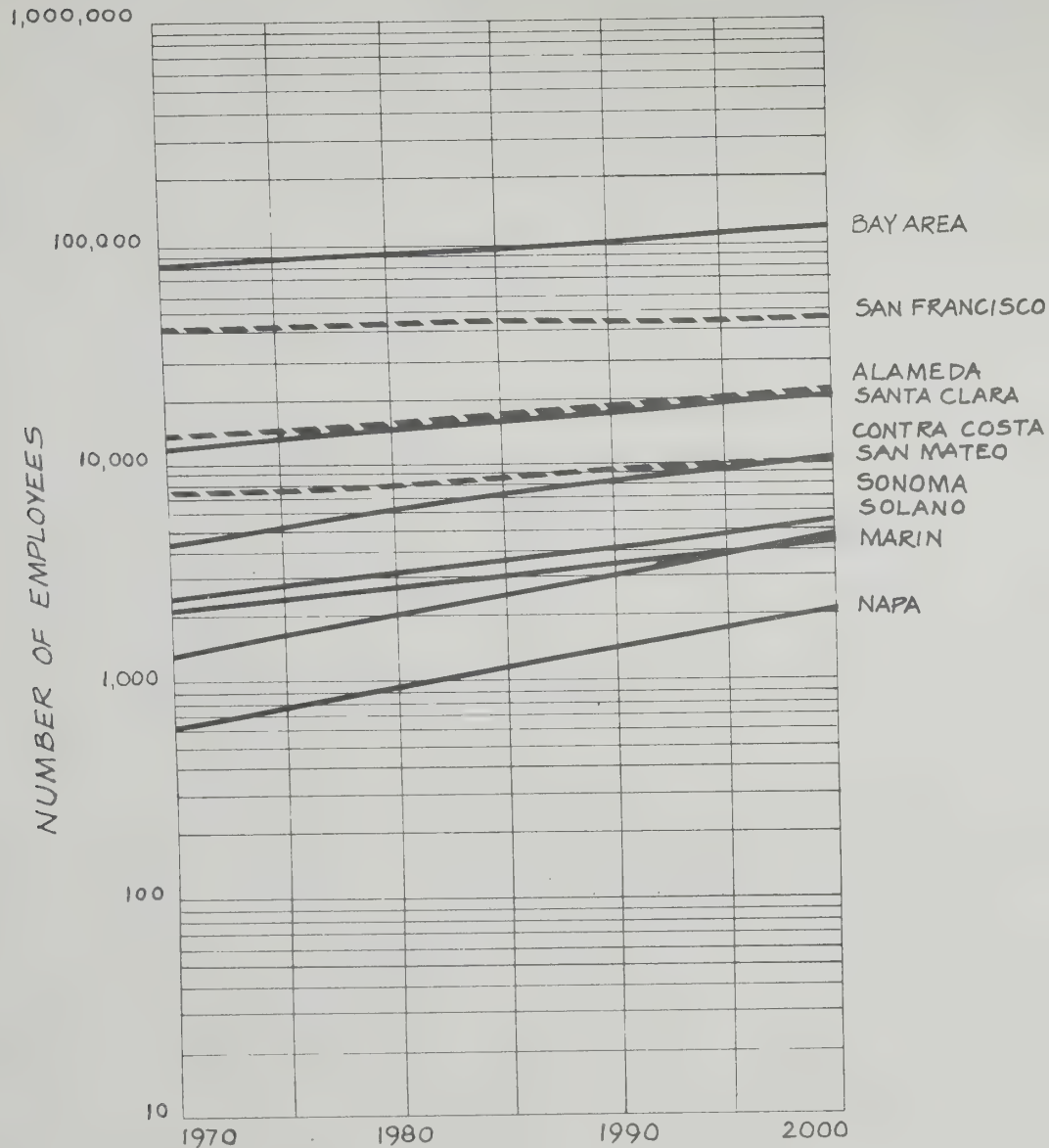


Table A.1.47
Employment Growth Analysis
Local Finance, Insurance and Real Estate

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	14.40
Contra Costa	Very Fast	15.13
Marin	Fast	5.80
Napa	Very Fast	3.46
San Francisco	Slow	20.74
San Mateo	Average	6.55
Santa Clara	Average	19.14
Solano	Very Fast	7.52
Sonoma	Fast	7.26

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.48: LOCAL FINANCE, INSURANCE AND REAL ESTATE

PROJECTIONS OF LOCAL FIRE EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR (PCT)	PERCENT GROWTH 1970-*, (PCT)	SHARE OF REG. TOT FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)	
	1970	2000	INCR.			1970	2000	1970	2000	1960-69	1970-*,	1960-69	1970-*,
PAY AREA 9	87.35	129.78	42.43	100.00	48.57	100.00	100.00	4.43	4.02	4.78	1.33	0.	0.
ALAMEDA	15.28	21.39	6.11	14.40	39.99	17.49	16.48	3.32	2.92	4.13	1.13	-.62	-.20
CNTRA CSTA	4.68	11.10	6.42	15.13	137.18	5.36	8.55	3.20	3.82	8.11	2.92	3.18	1.57
MARIN	2.05	4.51	2.46	5.80	120.00	2.35	3.48	3.62	4.16	5.65	2.66	.83	1.32
NAPA	.67	2.14	1.47	3.46	219.40	.77	1.65	2.45	3.80	5.53	3.95	.72	2.58
SAN FRNCSCO	40.63	49.43	8.80	20.74	21.66	46.51	38.09	7.89	8.13	3.81	.66	-.92	-.66
SAN MATEO	7.48	10.26	2.78	6.55	37.17	8.56	7.91	3.32	2.93	6.81	1.06	1.94	-.27
SANTA CLARA	12.68	20.80	8.12	19.14	64.04	14.52	16.03	3.03	2.52	7.63	1.66	2.72	.33
SOLANO	1.46	4.65	3.19	7.52	218.49	1.67	3.58	2.53	3.94	5.15	3.94	.36	2.57
SONOMA	2.42	5.50	3.08	7.26	127.27	2.77	4.24	3.58	3.89	4.78	2.77	.00	1.43

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.49: LOCAL SERVICES

COUNTY	LOC SERV EMPLOYMENT (THOUSANDS)						
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	295.42	334.82	374.80	395.64	435.23	484.15	539.49
ALAMEDA	64.61	72.09	79.24	81.92	88.04	95.43	103.35
CNTRA CSTA	23.82	28.59	33.81	37.61	43.48	50.70	59.07
MARIN	11.97	13.83	15.74	16.85	18.76	21.05	23.61
NAPA	5.02	5.94	6.94	7.62	8.70	10.01	11.51
SAN FRNC SO	84.54	90.06	94.52	93.30	95.73	99.07	102.44
SAN MATEO	31.92	35.44	38.76	39.87	42.63	45.98	49.55
SANTA CLARA	52.03	63.01	75.17	84.36	98.40	115.77	136.09
SOLANO	9.21	11.23	13.48	15.23	17.87	21.16	25.04
SONOMA	12.30	14.63	17.14	18.88	21.62	24.98	28.83

LOC SERV SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)							
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	21.87	21.53	21.14	20.71	20.23	19.71	19.16
CNTRA CSTA	8.06	8.54	9.02	9.51	9.99	10.47	10.95
MARIN	4.05	4.13	4.20	4.26	4.31	4.35	4.38
NAPA	1.70	1.77	1.85	1.93	2.00	2.07	2.13
SAN FRNC SO	28.62	26.90	25.22	23.58	22.00	20.46	18.99
SAN MATEO	10.80	10.58	10.34	10.08	9.79	9.50	9.18
SANTA CLARA	17.61	18.82	20.06	21.32	22.61	23.91	25.23
SOLANO	3.12	3.35	3.60	3.85	4.11	4.37	4.64
SONOMA	4.16	4.37	4.57	4.77	4.97	5.16	5.34

LOC SERV SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)							
BAY AREA 9	14.97	15.66	16.19	15.97	16.27	16.49	16.71
ALAMEDA	14.05	14.48	14.75	14.29	14.29	14.21	14.12
CNTRA CSTA	16.29	17.39	18.39	18.50	19.18	19.74	20.31
MARIN	21.13	21.79	22.25	21.72	21.85	21.81	21.78
NAPA	18.33	19.24	19.98	19.82	20.19	20.37	20.45
SAN FRNC SO	16.41	17.00	17.36	16.91	16.98	16.92	16.85
SAN MATEO	14.19	14.66	14.96	14.47	14.43	14.31	14.16
SANTA CLARA	12.43	13.42	14.28	14.50	15.21	15.85	16.51
SOLANO	15.96	17.52	18.83	19.21	20.04	20.69	21.23
SONOMA	18.21	19.14	19.89	19.66	20.02	20.23	20.39

Fig. A.1.17
EMPLOYMENT TRENDS
LOCAL SERVICES

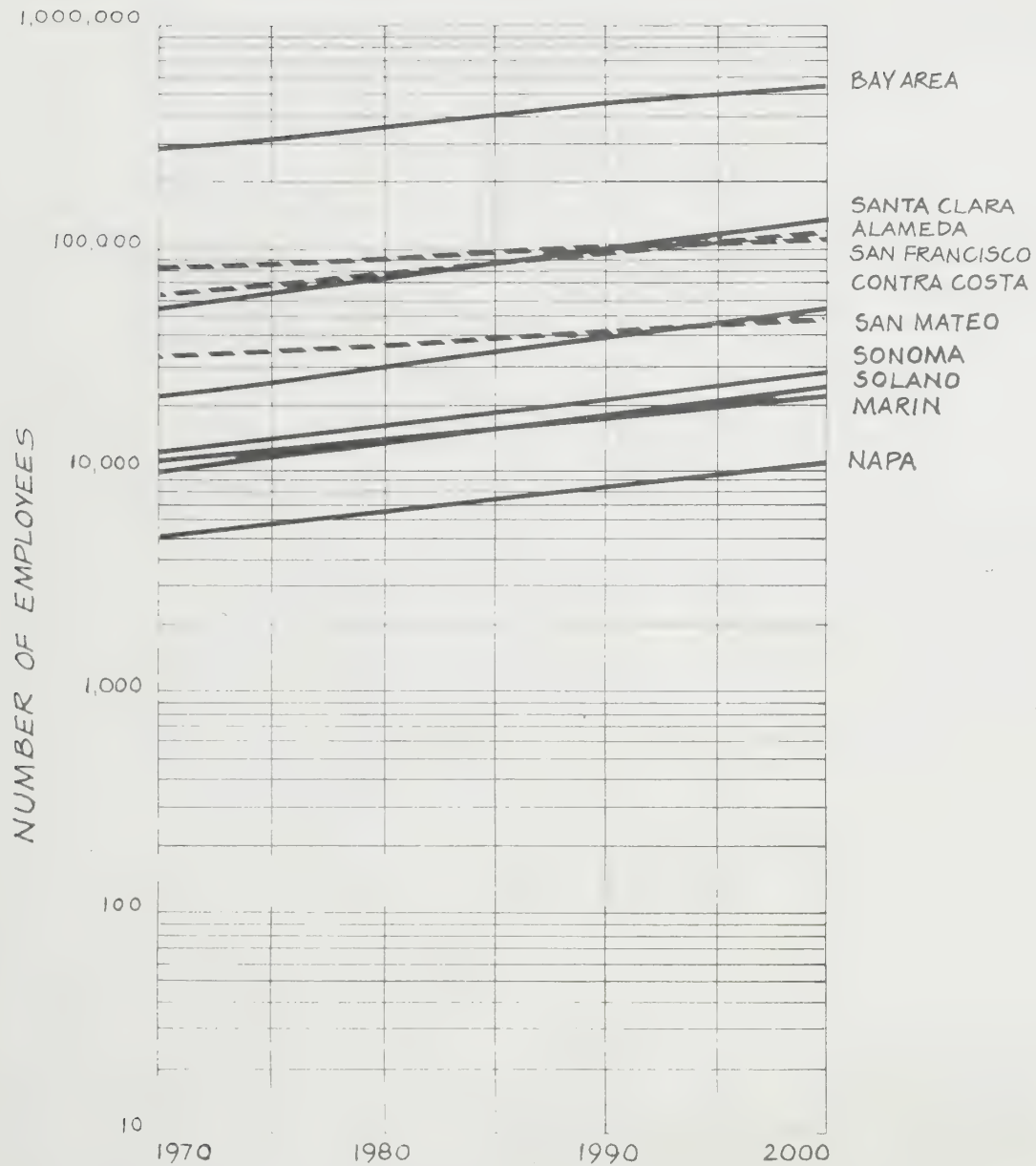


Table A.1.50
Employment Growth Analysis
Local Services

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Average	15.87
Contra Costa	Fast	14.44
Marin	Average	4.77
Napa	Fast	7.66
San Francisco	Slow	7.33
San Mateo	Slow	7.22
Santa Clara	Fast	34.11
Solano	Fast	6.49
Sonoma	Fast	6.77

— CONSTANT OR INCREASING COUNTY SHARE OF REGIONAL TOTAL
-- DECREASING COUNTY SHARE OF REGIONAL TOTAL

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.51: LOCAL SERVICES

PROJECTIONS OF LOC SERV EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE OF TOT. INCR	PERCENT GROWTH	SHARE OF REG. TOT		SHARE OF COUNTY		GROWTH RATE		GROWTH RATE RELATIVE	
	1970	2000	INCR.			1970	2000	1970	2000	1960-69	1970-*	1960-69	1970-*
BAY AREA 9	295.42	539.49	244.07	100.00	82.62	100.00	100.00	14.97	16.71	5.02	2.03	0.	0.
ALAMEDA	64.61	103.35	38.74	15.87	59.96	21.87	19.16	14.05	14.12	5.33	1.58	.29	-.44
CONTRA COSTA	23.82	59.07	35.25	14.44	147.98	8.06	10.95	16.29	20.31	6.78	3.07	1.67	1.03
MARIN	11.97	23.61	11.64	4.77	97.24	4.05	4.38	21.13	21.78	6.99	2.29	1.87	.26
NAPA	5.02	11.51	6.49	2.66	129.28	1.70	2.13	18.33	20.45	5.84	2.80	.78	.76
SAN FRANCISCO	84.54	102.44	17.90	7.33	21.17	28.62	18.99	16.41	16.85	2.23	.64	-2.66	-1.36
SAN MATEO	31.92	49.55	17.63	7.22	55.23	10.80	9.18	14.19	14.16	5.69	1.48	.64	-.54
SANTA CLARA	52.03	136.09	84.06	34.44	161.56	17.61	25.23	12.43	16.51	8.04	3.26	2.87	1.20
SOLANO	9.21	25.04	15.83	6.49	171.88	3.12	4.64	15.96	21.23	6.34	3.39	1.26	1.34
SONOMA	12.30	28.83	16.53	6.77	134.39	4.16	5.34	18.21	20.39	7.32	2.88	2.19	.84

*2000

ABAG/MTC/DOH Employment Projections
Series B: Industry Specific

Table A.1.52: LOCAL GOVERNMENT

COUNTY	LOC GOV		EMPLOYMENT (THOUSANDS)				
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	187.14	207.90	227.96	251.37	277.62	314.27	354.91
ALAMEDA	48.03	51.49	54.39	57.67	61.15	66.33	71.64
CNTRA CSTA	20.07	22.53	24.92	27.67	30.72	34.89	39.46
MARIN	8.33	9.35	10.34	11.48	12.75	14.48	16.37
NAPA	2.51	3.06	3.66	4.41	5.30	6.52	7.99
SAN FRANCISCO	34.16	36.92	39.32	42.03	44.92	49.12	53.48
SAN MATEO	22.95	24.62	26.02	27.61	29.28	31.78	34.34
SANTA CLARA	37.91	44.25	50.91	58.80	67.89	80.19	94.33
SOLANO	4.90	6.06	7.39	9.05	11.08	13.88	17.31
SONOMA	8.28	9.62	11.01	12.65	14.53	17.08	19.99

COUNTY	LOC GOV		SHARE OF 9 COUNTY REGION BY INDUSTRY GROUP (PERCENT)				
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ALAMEDA	25.67	24.77	23.86	22.94	22.03	21.11	20.19
CNTRA CSTA	10.72	10.84	10.93	11.01	11.07	11.10	11.12
MARIN	4.45	4.50	4.54	4.57	4.59	4.61	4.61
NAPA	1.34	1.47	1.61	1.75	1.91	2.07	2.25
SAN FRANCISCO	18.25	17.76	17.25	16.72	16.18	15.63	15.07
SAN MATEO	12.26	11.84	11.41	10.98	10.55	10.11	9.68
SANTA CLARA	20.26	21.28	22.33	23.39	24.45	25.52	26.58
SOLANO	2.62	2.91	3.24	3.60	3.99	4.42	4.88
SONOMA	4.42	4.63	4.83	5.03	5.23	5.43	5.63

COUNTY	LOC GOV		SHARE OF EMPLOYMENT BY COUNTY/REGION (PERCENT)				
	1970	1975	1980	1985	1990	1995	2000
BAY AREA 9	9.48	9.72	9.85	10.15	10.38	10.70	10.99
ALAMEDA	10.45	10.35	10.12	10.06	9.93	9.88	9.79
CNTRA CSTA	13.73	13.71	13.56	13.61	13.55	13.59	13.57
MARIN	14.70	14.73	14.61	14.80	14.85	15.00	15.10
NAPA	9.16	9.91	10.54	11.47	12.30	13.27	14.19
SAN FRANCISCO	6.63	6.97	7.22	7.62	7.97	8.39	8.80
SAN MATEO	10.20	10.18	10.04	10.02	9.91	9.89	9.81
SANTA CLARA	9.06	9.42	9.67	10.11	10.49	10.98	11.44
SOLANO	8.49	9.46	10.32	11.41	12.43	13.57	14.68
SONOMA	12.26	12.58	12.77	13.17	13.46	13.83	14.14

Fig. A.1.18

EMPLOYMENT TRENDS

LOCAL GOVERNMENT

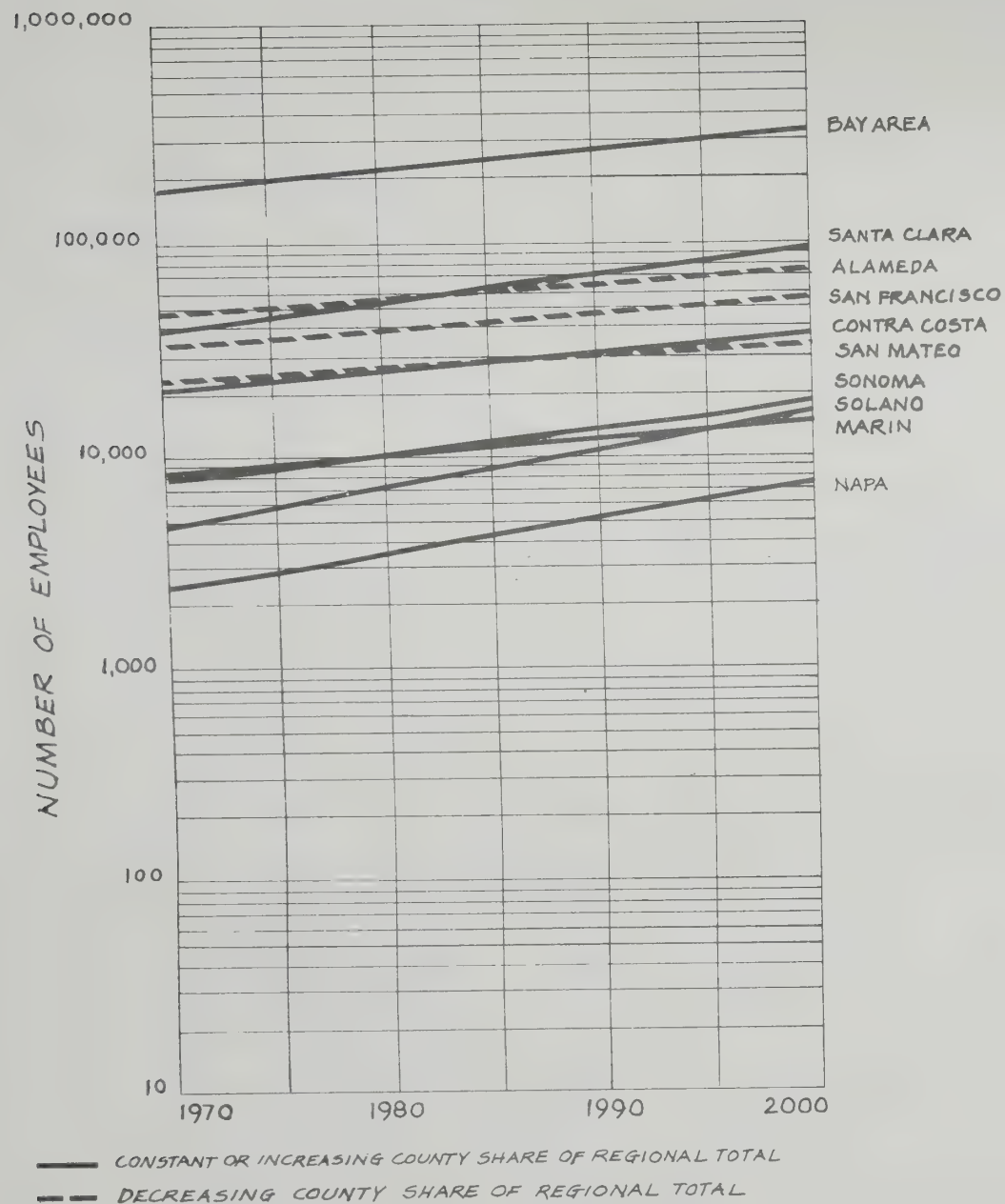


Table A.1.53
Employment Growth Analysis
Local Government

County	Relative Growth Rate	Percentage Share of Regional Growth
Alameda	Slow	14.07
Contra Costa	Average	11.56
Marin	Average	1.79
Napa	Very Fast	5.27
San Francisco	Slow	11.52
San Mateo	Slow	6.79
Santa Clara	Fast	33.63
Solano	Very Fast	7.40
Sonoma	Fast	6.98

ABAG/MTC/DOH Employment Projections
Series C.1: Target Year Specific - Industries

Table A.1.54: LOCAL GOVERNMENT

PROJECTIONS OF LOC GOV EMPLOYMENT FOR 2000													
	EMPLOYMENT (THOUSANDS)			SHARE INCR OF TOT. INCR (PCT)	PERCENT SHARE OF REG. TOT GROWTH FOR INDUSTRY (PCT)		SHARE OF COUNTY EMPLOYMENT (PCT)		GROWTH RATE ---- (PCT/YR) ----		GROWTH RATE RELATIVE TO REG. GRWTH (PCT/YR)		
	1970	2000	INCR.		1970-%	1970	2000	1970	2000	1960-69	1970-%	1960-69	1970-%
BAY AREA 9	187.14	354.91	167.77	100.00	89.65	100.00	100.00	9.48	10.99	6.72	2.16	0.	0.
ALAMEDA	48.03	71.64	23.61	14.07	49.16	25.67	20.19	10.45	9.79	5.79	1.34	-.87	-.80
CONTRA COSTA	20.07	39.46	19.39	11.56	96.61	10.72	11.12	13.73	13.57	7.01	2.28	.27	.12
MARIN	8.33	16.37	8.04	4.79	96.52	4.45	4.61	14.70	15.10	7.70	2.28	.91	.12
NAPA	2.51	7.99	5.48	3.27	218.33	1.34	2.25	9.16	14.19	6.25	3.94	-.44	1.74
SAN FRANCISCO	34.16	53.48	19.32	11.52	56.56	18.25	15.07	6.63	8.80	4.34	1.51	-2.23	-.64
SAN MATEO	22.95	34.34	11.39	6.79	49.63	12.26	9.68	10.20	9.81	6.58	1.35	-.13	-.79
SANTA CLARA	37.91	94.33	56.42	33.63	148.83	20.26	26.58	9.06	11.44	9.76	3.09	2.85	.91
SOLANO	4.90	17.31	12.41	7.40	253.27	2.62	4.88	8.49	14.68	6.67	4.30	-.05	2.10
SONOMA	8.28	19.99	11.71	6.98	141.43	4.42	5.63	12.26	14.14	8.14	2.98	1.33	.81

*2000

APPENDIX A-2

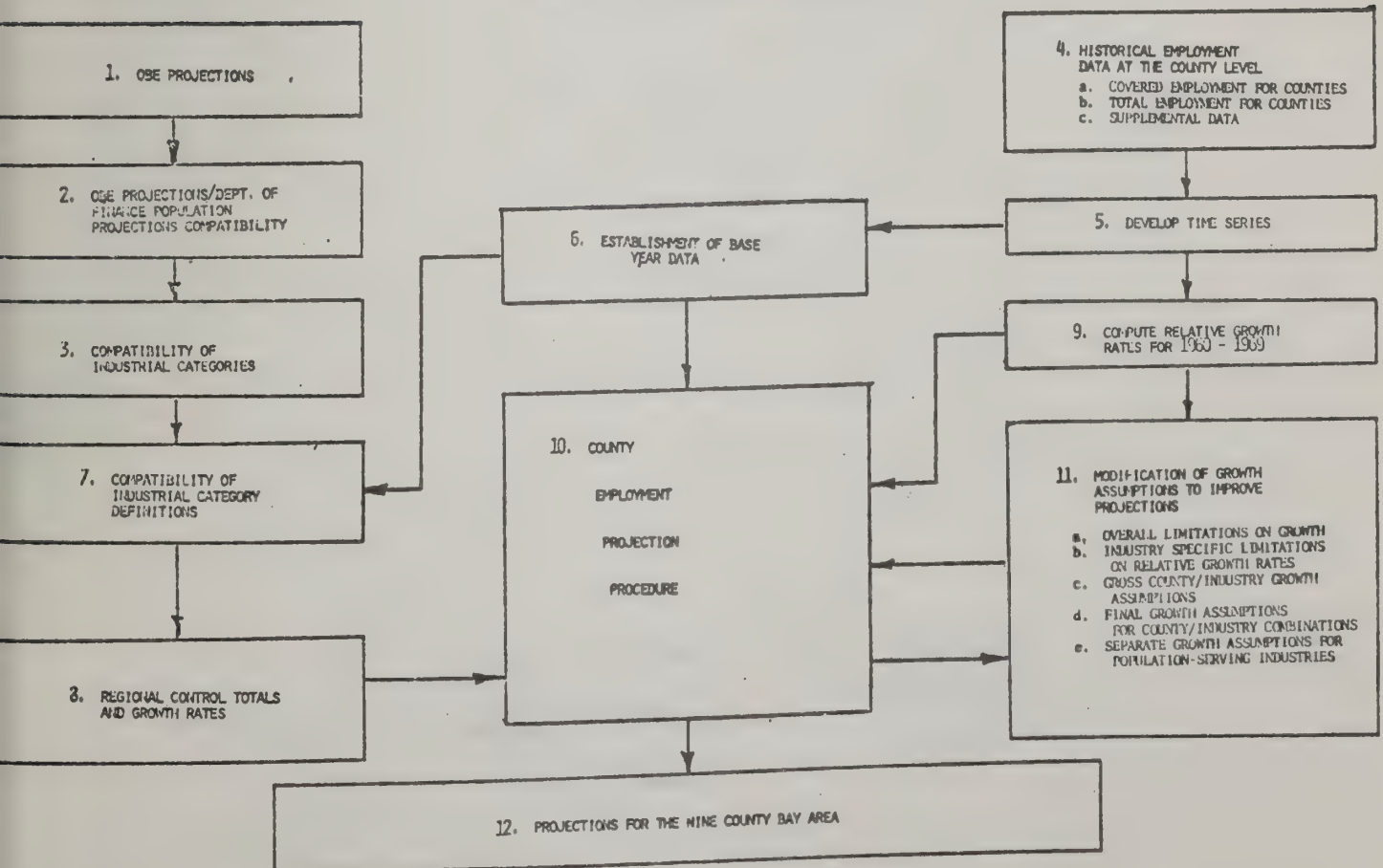
TECHNICAL ASSUMPTIONS ON COUNTY EMPLOYMENT PROJECTIONS

A.2.1 Explanation of Projection Process

The projection method was very briefly described in the main body of this report. A more detailed explanation of the steps involved in generating these projections is given in this Appendix.

In order to follow the flow of the steps explained below refer to Figure A.2.1.

FIGURE A-2.1
DIAGRAM OF COUNTY EMPLOYMENT PROJECTION PROCESS



Each major step is numbered. A description of each of these steps follows:

1. OBE Projections

Employment projections for 32 industrial categories for the 14 County Region including the nine Bay Area Counties plus Lake, Mendocino, Monterey, San Benito and Santa Cruz. These projections start with a base year of 1966 and show projections for 1980, 1990, 2000, 2010 and 2020. The documentation on these projections is Economic Activity in the United States by Water Resource Regions and Subareas: Historical and Projected 1929-2020, Volume 1, and Volume 4, United States Water Resources Council, Washington, D.C.

2. OBE Projections/Department of Finance Population Projections

The OBE Projections and the Department of Finance Population Projections used different fertility and migration assumptions. A decision was made early on to make all Regional projections conform to the Department of Finance population projections. Therefore, the OBE employment projections were adjusted across the board to adjust for the changes in the adult population reflected in the difference in migration rates. Here we assumed that the differences in fertility rates would have only a slight impact on working age population near the end of the projection period.

3. Compatibility of Industrial Categories

The OBE projections were made for 32 industrial categories while the modeling system used in the ABAG/MTC Joint Program uses 18 industrial categories. Table 1.1 in the main body of this report shows the categories

used in the work of the ABAG/MTC Joint Program. Table A.2.1 shows the composition of the 32 industrial categories used by OBE. Most of the eighteen categories were aggregates of the categories used by OBE, but nine of the OBE industrial categories required splitting in order to achieve Regional estimates of the 18 categories.

In all cases the splits involved separating employment from one or more 2-digit SIC's from the other employment in one of 32 industrial categories used by OBE and aggregating these SIC's with others to form one of the eighteen categories. The splitting of the OBE categories was accomplished by plotting the proportion which a given SIC represented of a given OBE industrial category as found in our historical data for both the Region and the Nation in the sixties. The trends of each were approximated by drawing an eyeball curve and extrapolating to the year 2000 using the National trend as a constraint for the Regional curve. The proportions derived in this manner were then applied to the OBE projections to obtain the splits.

The historical data for the Region was the time series derived from the data we obtained from the California Department of Human Resources Development described below. The National data was obtained from the Employment and Earnings Report in the United States published by the United States Department of Labor, Bureau of Labor Statistics.

4. Historical Employment Data at the County Level

In order to develop the allocation procedure used to make County Employment Projections we needed to obtain a reasonable time series

TABLE A.2.1
INDUSTRY SECTORS AND S.I.C. CODES
USED IN OBE PROJECTIONS

Industry Sector

Agriculture	01, 07
Forestry and Fishery	08, 09
Mining	10, 11, 12, 13, 14
Contract Construction	15, 16, 17
Manufacturing	
Food & Kindred Products	20
Textile Mill Products	22
Apparel and other Textiles	23
Printing and publishing	27
Chemicals and Allied Products	28
Lumber and Furniture	24, 25
Machinery, excluding electric	35
Electric Equipment & Supplies	36
Transportation Equipment-Motor Vehicles	371
Transportation Equipment-excl. Motor Vehicles	372, 373, 374, 375, 379
Paper and allied Products	26
Petroleum, refining	29
Primary Metals	33
Fabricated metals	19, 34
Miscellaneous Manufacturing	21, 30, 31, 32, 38, 39, 40
Railroad Transportation	40
Trucking and Warehousing	42
Other Transportation Services	41, 44, 45, 46, 47
Communications	48
Utilities (electric, gas, sanitary)	49
Wholesale and Retail trade	50, 52, 53, 54, 55, 56, 57, 58, 59
Insurance and Real Estate	60, 61, 62, 63, 64, 65, 66, 6
Services	
Lodging places & Personal Services	70, 72
Business and Repair Services	73, 75, 76
Amusement & Rec. Services	78, 79
Private Households	88
Professional Services	80, 81, 82, 84, 86, 89
Government	
Civilian Government	91, 92, 93, 94

of employment disaggregated by county and industrial classification.

These types of data were obtained for this purpose:

- a. Data showing employment covered by unemployment insurance by 2-digit SIC and County. Source: California Department of Human Resources Development (HRD) printouts. This data was obtained for an annual basis for the period 1960 to 1970 inclusive.
- b. Estimates of Total Employment by 2-digit SIC (but not always) for SMSA's in the Region. This data does not include the self-employed. Source: California Department of Industrial Relations.
- c. The above data was supplemented by data gathered from the files of the Research Department of the San Francisco HRD office on Railroad employment, Federal, State and Local government employment, public school employment, domestic servant employment and a breakdown of self-employed by varying degrees of disaggregation. State college and University employment was obtained by calling those institutions not in Alameda and San Francisco Counties. Some of this data was incomplete and was completed by estimates derived from trends in proportions among SIC's.

5. Development of Time Series

A time series of total employment by 2-digit SIC was prepared using the data described above. The basic procedure followed was as follows:

- a. County level 2-digit SIC data on covered employment was expanded to equal the SMSA totals at the most detailed level of disaggregation found in each SMSA.

- b. For those counties not in SMSA's (Lake, Mendocino, San Benito, Santa Cruz) an expansion factor was created for each SIC based on the expansion factor for the combined SMSA's of Santa Rosa, Vallejo-Napa and Monterey.
- c. Agriculture, Forestry and Fisheries and Mining were not disaggregated by two digit SIC.
- d. Supplemental data described in (4 (c)) above was substituted for Agriculture, Railroad Employment (SIC 40) Domestic Servants (SIC 88), Federal Government, State Government and Local Government.
- e. All of the above employment data in the time series was total employment (covered and not covered) but did not include the self-employed in those industrial categories. For the purpose of making comparisons with 1966 OBE data and to establish a total employment base, including self-employed, for our projections in 1970, the data for these two years was expanded. The same expansion factor was used for both years because most of the data on the self-employed obtained from the Research Department of the San Francisco HRD office did not extend beyond 1967. Expansion factors were developed for each county for aggregates of SIC's for which self-employment data was available and applied to each SIC in such aggregates.
- f. The supplemental data and the self-employed data for Napa and Solano counties were available on a combined basis. Therefore, the improvements in the time series for these counties was made using the splits in either major industry groups or in the covered data, both of which were available by county.

- g. Finally, for the purposes of our projection method the time series was aggregated to the eighteen categories shown in Table 1.1 of the main body of this report.

6. Establishment of the Base Year Data

Inspection of the data revealed apparent discrepancies between the 1965 data used in the BATSC Study and our 1970 base as derived above although the BATSC data was derived from HRD data for 1965 as well.

The reason for this discrepancy is that the BATSC Study did a thorough analysis of the HRD employment file by firm. This analysis revealed that due to reporting procedures and other reasons adjustments to this file were required to show a more appropriate distribution of employment. The ABAG/MTC Joint Program staff did not have enough time and manpower to repeat such an analysis for 1970 data. Therefore, it was decided to assume that a first approximation to an appropriate adjustment could be made by using the same adjustment as used in the adjustment of the 1965 data. This was accomplished by expanding the 1965 BATS Employment Inventory, aggregated to the level of the eighteen industrial categories used in these projections, by the ratio of the 1970 to 1965 employment in each of these categories. Of course, these adjustments apply only to the employment estimates for the nine counties in the Bay Area. The other 5 counties involved in the projection process were represented by the time series data derived in 5 (g) above.

Using this expansion method resulted in a "raw" 9-County regional employment of 1,979,000 jobs estimated by HRD. Therefore, the adjusted employment for 1970 was normalized to equal 1,974,000 jobs in the 9-County Bay Area.

7. Compatibility of Industrial Category Definitions

There are differences in both the definition and accounting of employment by industrial category between the OBE data and the HRD data. The primary difference

lies in the definition of government employment. HRD defines employment as government if the jobs involved are directly administered by governmental bodies. OBE defines government employment by the type of industry in which government is involved so that only public administration is included in government. For example, workers in a county hospital would be classed as employees in medical services by OBE and as government employees by HRD.

Furthermore, OBE employment estimates are compatible with the U.S. Census of Population which counts employed residents while HRD figures are tied more closely to a count of jobs. In any case, historical employment figures are derived through an estimation process.

Since most work done in the Bay Area is tied to HRD related statistics it was decided to adjust the OBE projections to achieve an approximation of compatibility with HRD figures. This adjustment was performed by multiplying all OBE projections by the ratio of HRD to OBE employment (including the self-employed) by industry for the year 1966. In order to maintain consistency these adjusted projections were normalized to the OBE figures for projected total employment in the Region.

8. Regional Control Totals and Growth Rates

Regional Control Totals were generated for the county employment projection process for each of eighteen industrial categories for 1975 to 2000 in 5 year increments. The method used the values for each industry derived in the establishment of compatibility discussed in (7) above for 1980, 1990, and 2000. These are years in which OBE provides projections. It was then assumed that employment grows according to a compound interest rate with a uniform Regional growth rate for each

industry in each ten year period. These Regional Growth Rates were computed and applied to appropriate bases to obtain Regional Control Totals for 1975, 1985, 1995.

9. Compute Relative Growth Rates for 1960-1969

The first effort at allocating projected Regional Control Totals to the nine Bay Area counties and the five extra counties included in the OBE fourteen County Region was based on the assumption that for each of the eighteen industrial categories the relative growth rate in the future will be the same as that found in the sixties. These relative growth rates act as a shift on the Regional growth rates and can be interpreted as indicators of the relative attractiveness of each of the counties relative to all other counties given a specific base of employment in that category. As in the computation of Regional control totals it is assumed that growth will occur on a compound interest basis. Therefore, relative growth rates were computed from the employment in the time series (not including the self-employed) for the period 1960-1969. Data for 1970 was not included because most industries showed a downturn in 1970 which was felt by staff to be uncharacteristic of continuing trends.

The computation of relative growth rates was based on the following equations.

$$RGR_{ki} = CS_{ki} * 100 - 100 \quad (\text{eq. 1})$$

$$CS_{ki} = \frac{ACG_{ki}}{ARG_i} \quad (\text{eq. 2})$$

$$ACG_{ki} = \left(\frac{(E_{ki}, 1969)}{(E_{ki}, 1960)} \right)^{1/9} \quad (\text{eq. 3})$$

$$ARG_i = \left(\frac{(E_{ri}, 1969)}{(E_{ri}, 1960)} \right)^{1/9} \quad (\text{eq. 4})$$

where

RGR_{ki} = Relative growth rate of County k for industry i

CS_{ki} = County shift of County k for industry i

ACG_{ki} = Annual County Growth of County k for industry i

$E_{ki,t}$ = Employment in County k in industry i in year t

ARG_i = Annual Regional Growth in industry i

$E_{Ri,t}$ = Employment in the Region in industry i in year t

The County shifts computed on this basis as well as average county shifts computed on an annual basis and for the periods 1960-1964 and 1965-1969 are available for inspection. County shifts computed in all of these ways as well as the time series data on employment were used to check for data errors and reasonableness of the computed county shifts are reasonable indicators of relative employment trends. In some cases these shifts were adjusted.

10. County Employment Projection Procedure

County shifts were used in the projection process instead of relative growth rates because it made the computation process simpler, but it should be noted that the county shift is a simple function of relative growth rate as shown in the following equation.

$$CS_{ki} = 1 + \frac{RGR_{ki}}{100} \quad (\text{eq. 5})$$

The county shifts were used to compute allocations of employment for each five year time period on a sequential basis for each industry according to the following equations:

$$E_{ki,t+5} = (E_{ki,t}) (CS_{ki, t+5,t}) (ARG_{i, t+5,t}) (N_{i, t,t+5}) \quad (\text{eq. 6})$$

where

$E_{ki,t}$ = Employment in County k in industry i for year t

$CS_{ki, t+5, t}$ = County Shift for County k in industry i for the time period from year t to year t+5

$ARG_{i, t+5, t}$ = Annual Regional Growth in industry i for the period from year t to year t+5

$N_{i,t,t+5}$ = Normalization factor applied to bring the sum of county employment estimates equal to the Regional employment projected for industry i in the time period t to t+5

A simple example of this computation procedure is shown in Section A.2.2.

An additional series of tables produced in the computer run but not described in the main body of the report shows the results of these computations on an incremental basis. These tables show the Regional Growth rates assumed, the inputted relative growth rates, the normalization factor, the *de facto* relative growth rates after normalization, the increments in employment, and the share of the increment in each county for each industry for each five year period.

11. Modification of Growth Assumptions to Improve Projections

Inspection of the preliminary County Employment Projections made using the county shifts computed from the employment data for 1960 and 1969 showed a broad range of unacceptable results. In order to improve the results a number of adjustments were made to the county shifts. The current County Employment Projections reflect the final set of modifications of growth assumptions. Further adjustments will be made as needed to improve our confidence in the results. The following are the major types of adjustments in the shifts which were made between the preliminary projections and our current projections.

a. Overall Limitations on Growth. The range of annual county growth and relative growth rates shown in the sixties would not be expected to hold over the thirty year projection period. Therefore, it was assumed that annual county growth would have to lie between .95 and 1.05 while relative growth rates could range between .97 and 1.05.

b. Industry Specific Limitations on Relative Growth Rates. It was expected that industries expecting larger Regional growth rates would show a larger variation in relative growth rates among the counties than those with smaller Regional growth rates. Therefore, it was assumed that relative growth rates could not be greater than the projected Regional growth rate except for those industries with Annual Regional Growth of less than 1.02 which would be permitted to show relative growth rates as high as +2.0.

c. Gross County/Industry Growth Assumptions. While still in the process of zeroing in on proper growth assumptions, gross assumptions on which county/industry combinations would show absolute and relative gains and declines were made. These assumptions shown in Table A.2.2, which shows the counties which were expected to grow faster or slower than the Region in each industry, and Table A.2.3 which shows the counties which are expected to gain or decline employment in each industry. In many cases these assumptions were changed by other modifications.

d. Final Growth Assumptions for County/Industry Combinations. A series of trial runs of the County Employment Projections were made before the present version was accepted. In each trial run various modifications were made in the county shifts or relative growth rates and the results inspected in both graphic and tabular form. The relative performance of the counties under the final set of growth assumptions is shown in Appendix A-1 for each industry. The degree for which relative growth rates are different from those found in the sixties is shown for the entire set of county/industry combinations in Table A.2.4. Note that both Table A.2.4 and the tables in Appendix A-1 show the net effect of assumptions on relative growth rates over the entire projection period, 1970-2000. Specific assumptions on relative growth rates applying to individual five year spans were made in the modifications.

Table A 2.2: ASSUMPTIONS CONCERNING COUNTY SHIFTS USED IN FORECASTS
 OF EMPLOYMENT AT COUNTY LEVEL
 Shifts: Min. 97, Max. 1.05

BEMOD Group	County									Extra Five Counties 99	Total
	Contra Costa 6	Marin 19	Napa 26	San Mateo 37	Santa Clara 39	Solano 44	Sonoma 45	Alameda 70	San Francisco 80		
1	max. 1.0	max. 1.0		max. 1.0	max. 1.0		max. 1.0	max. 1.0	max. 1.0	min. 1.0	
2											
3	min. 1.0			min. 1.0	max. 1.0			min. 1.0	max. 1.0		
4	min. 1.0			min. 1.0	min. 1.0		min. 1.0	min. 1.0			
5			min. 1.0			min. 1.0	min. 1.0		max. 1.0	min. 1.0	
6		max. 1.0							max. 1.0		
7									max. 1.0		
8					min. 1.0	min. 1.0			max. 1.0	min. 1.0	
9						min. 1.0	min. 1.0		max. 1.0	min. 1.0	
10		min. 1.0			min. 1.0			min. 1.0	max. 1.0		
11											
12	min. 1.0				min. 1.0		min. 1.0	min. 1.0	max. 1.0	min. 1.0	
13			min. 1.0			min. 1.0	min. 1.0			min. 1.0	
14			min. 1.0			min. 1.0	min. 1.0			min. 1.0	
15			min. 1.0			min. 1.0	min. 1.0			min. 1.0	
16			min. 1.0			min. 1.0	min. 1.0			min. 1.0	
17			min. 1.0			min. 1.0	min. 1.0			min. 1.0	
18			min. 1.0			min. 1.0	min. 1.0			min. 1.0	

NOTE: Min. 1.0 means County must grow at the same rate or faster than the Region in that industry.
 Max. 1.0 means County must grow at the same rate or slower than the Region in that industry.

**Table A 2.3: ASSUMPTIONS CONCERNING COUNTY GROWTH FACTORS
USED IN EMPLOYMENT FORECASTS**
Growth Rates: Min. .95, Max. 1.10

BEMOD Group	County									Extra Five Counties 99	Total
	Contra Costa 6	Marin 19	Napa 26	San Mateo 37	Santa Clara 39	Solano 44	Sonoma 45	Alameda 70	San Francisco 80		
1	max. 1.0	max. 1.0		max. 1.0	max. 1.0			max. 1.0	max. 1.0		
2	max. 1.0	max. 1.0	max. 1.0	max. 1.0	max. 1.0	max. 1.0	max. 1.0	max. 1.0	max. 1.0		
3	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		min. 1.0	
4	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		min. 1.0	
5	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	max. 1.0	min. 1.0	
6	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		min. 1.0	
7	min. 1.0		min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		max. 1.0	min. 1.0	
8	min. 1.0		min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		min. 1.0	
9	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0		min. 1.0	
10	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
11	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
12	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
13	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
14	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
15	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
16	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
17	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	
18	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	min. 1.0	

NOTE: Max. 1.0 means that employment in a given County/industry combination must decline.
Min. 1.0 means that employment in a given County/industry combination must increase.

Change in Relative Growth Rate for 1970 to 2000 From Base Period 1960 to 1969

	Ala	Con Cst	Mar	Nap	San Fra	San Mat	San Cla	Sol	Son
Ag, Fr, Fsh	++		+	++	+		++	++	++
Mining	-	++		-		++			--
New Tech	++	++	--		++	++	-	++	--
Centr Urb	+	-	-			--	--	--	
Decentr	+		++			-	--	--	
Met, Mach			++	--	++	+	--	++	--
Petro, Met	-	++	--	--		--	--	--	
L D Trans		++			+	--		--	++
Whol Trade	+		--		+	--	--		+
Nt Fin, Ins	++			--		--	-	+	--
Inst Serv	+	--	--	+			--	+	+
F, S Gov		--	-		+	--	-	+	+

+, - equals 1 to 2% year change from base period

++, -- equals greater than 2% year change from base period

e. Separate Growth Assumptions for Population-Serving Industries. Population-serving Industries were included in these projections. primarily for completeness. It is expected that these projections will be modified to reflect the estimates of the distribution of employment in Basic Industries within the Counties and of population within the Region are made by the BEMOD and PLUM allocation models used by ABAG and MTC.

For the purposes of these forecasts it was assumed that employment in each population-serving industrial category would be distributed among the counties so that the following ratio is constant for the year 2000.

$$\frac{E_{ki(p)}}{P_k + E_{kb}}$$

where

$E_{ki(p)}$ = Employment in County k in population-serving industry
i in 2000

P_k = Population in County k in 2000 projected by the Department of
Finance

E_{kb} = Employment in County k in Basic Industries

This means that by the year 2000 each county would have population-serving employment in proportion to the sum of its nighttime population and day-time projected by the Department of Finance population in the Region.

Strict application of this assumption resulted in what was felt to be unrealistic declines in employment in population-serving industries in San Francisco. Therefore, these industries were held to higher levels and the remaining employment in these industries distributed according to the rule described above.

The relative growth rates necessary to achieve these results were then calculated and introduced into the computer program to obtain projections for the years between 1970 and 2000.

f. Comparisons with Projections Made on the Basis of Trends Alone

A set of employment projections was made on the basis of trends in the sixties. These projections use the relative growth rates found in the sixties and noted above. Highlights of the difference between these projections and the projections published for distribution in this report were discussed in the Section 2.2. A detailed comparison for each county/industry combination may be found in Table A.2.5, A.2.6, and A.2.7.

12. Projections for the Nine County Bay Area

All of the above technical assumptions and computations were made for a 14 county Region in which employment in Lake, Mendocino, Monterey, San Benito, and Santa Cruz counties were treated as a single extra county. Since ABAG and MTC are concerned with the nine county Bay Area, additional runs were made in which the projected employment in each industry in the extra five counties was deleted and all measures such as relative growth rates, shares of growth, etc., were recomputed on the basis of the nine county totals. Also, all reference to the extra five counties was deleted from the tables. This provides us with a "clean" copy, but it should be remembered that the extra five counties are a part of the projections process.

Table A-2.5

Ratio of Employment Projections Based on Trends to "Best Estimate"
of Projected Employment for the Year 2000 by County
and Industry

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	.91	2.89	1.80	.63	.00	2.79	.56	.58	.55
Mining	1.09	.24	.79	1.00	.79	.00	.76	.58	2.07
New Tech.	.16	.34	3.84	.63	.08	.15	1.33	.15	2.86
Centr Urb	.35	.77	.77	.63	.40	2.23	1.47	1.55	.63
Decentr.	.53	.62	.38	.80	.71	1.19	1.65	3.60	.89
Met. Mach.	.48	.49	.17	1.00	.22	.35	2.12	.20	1.78
Petro. Met.	.90	.20	7.35	1.46	.51	1.11	2.84	2.43	.50
Ld. Trans.	.39	.23	.50	.50	.36	2.23	.50	1.60	.09
Whol Trad.	.28	.42	.70	.44	.27	2.80	1.79	.48	.27
Nt Fin. In.	.29	.93	.58	3.33	.73	1.60	1.26	.41	6.47
Inst. Serv.	.50	1.45	4.93	.42	.53	.81	1.45	.38	.51
F.S. Gov.	.82	8.85	1.31	.95	.56	2.30	1.15	.56	.53
All Basic	.50	1.01	2.91	.72	.50	2.57	1.49	1.07	1.06
All Pop Srv.	.80	1.20	1.11	.62	.62	1.25	1.44	.57	.86
Total Empl.	0.65	1.14	1.58	.65	.57	1.35	1.46	.71	.92

Table A-2.6

Ratio of Growth in Employment Based on Trends to "Best Estimate"
of Projected Growth in Employment for 1970-2000
By County and Industry

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	1.11	-13.62	-1.52	-12.40	0.	-4.79	1.57	-13.63	4.53
Mining	0.24	2.44	1.38	1.00	1.36	0.	1.44	3.67	-15.00
New Tech.	-0.18	.13	4.99	.39	-.93	-.19	1.79	-.42	3.38
Centr Urb	-.49	.55	.43	-2.00	-3.98	3.39	1.92	2.07	-.07
Decentr.	-2.01	-1.48	5.40	-1.71	1.27	2.19	-3.45	17.86	.41
Met. Mach.	-.10	.23	-4.43	1.00	3.58	-1.22	3.34	-.66	2.08
Petro. Met.	-.14	-1.48	20.54	2.44	-8.82	1.51	9.69	2.83	.22
Ld. Trans.	-.67	-1.94	-1.60	-.26	2.12	9.57	-.35	2.13	-.72
Whol Trad.	-1.14	-.15	.41	-.22	2.80	7.58	3.36	-.02	-.43
Nt Fin. In.	-1.28	.69	-.36	6.25	-.38	2.24	1.83	-2.17	12.21
Inst. Serv.	.15	1.77	7.70	-1.39	-.33	.67	1.77	-1.51	.16
F.S. Gov.	.17	47.65	2.83	.73	-1.25	8.68	1.39	10.62	-.21
All Basic	-.25	1.02	5.34	-.18	-9.01	2.09	2.18	1.60	1.15
All Pop Srv.	.43	1.38	1.22	.40	-.70	1.81	1.79	.35	.77
Total Empl.	.05	1.28	2.22	.32	-1.82	1.97	1.94	.43	.86

Table A-2.7

Change in Relative Growth Rate Between the Projection
Period 1970-2000 and the Sixties for Industries

	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma
Ag. Fr. Fish	3.28	.23	1.09	4.54	2.02	-.23	4.84	4.81	4.94
Mining	-1.36	4.22	-.26	-1.06	-.29	54.58	-.17	.75	-3.55
New Tech.	5.18	2.74	-10.57	.60	8.34	5.30	-1.82	5.70	-16.54
Centr Urb	1.30	-1.34	-1.32	-.61	.86	-5.03	-3.57	3.77	-.60
Decentr.	1.22	.74	2.26	-.17	.26	-1.46	-2.56	5.32	-.50
Met. Mach.	.24	.13	3.63	-2.35	2.73	1.24	-4.87	3.13	-4.33
Petro. Met.	-1.59	3.43	-13.69	-3.28	.30	-2.29	-5.56	-35.08	.43
Ld. Trans.	.79	2.54	-.10	-0.09	1.01	-5.14	-.05	-4.05	5.55
Whol Trad.	1.04	-.29	2.09	-.43	1.16	-6.87	-5.30	-.77	1.13
Nt Fin. In.	3.01	-.77	.81	-5.33	.04	-2.66	-1.81	1.80	-16.54
Inst. Serv.	1.06	-2.54	9.83	1.63	.85	-.55	-2.54	1.92	1.01
F.S. Gov.	-.24	-8.53	-1.80	-.74	1.01	-3.74	-1.38	1.04	1.20
All Basic	.62	1.33	-2.34	.90	.90	-1.00	-3.15	.45	1.60
All Pop Srv.	.13	-1.09	-.75	.71	1.12	-1.23	-1.91	1.11	-.24
Total Empl.	.31	.25	-1.57	.50	.98	-1.14	-2.59	1.28	.53

A.2.2 Example of the Shift Method

An example of the computation involved in the use of the stepdown and shift methods follows:

Suppose there are two counties in a Region, (1) and (2), with the following employment figures by year.

	<u>County (1)</u>	<u>County (2)</u>	<u>Regional Total</u>
1960	50,000	30,000	80,000
1970	60,000	40,000	100,000
1980			115,000

The 1980 figure for the Regional total is analogous to Regional forecasts from OBE. The 1960 and 1970 figures are analogous to the time series data.

Growth factors (GF) for 10-year periods are as follows:

$$GF \text{ (County 1, '60-'70)} = \frac{60,000}{50,000} = 1.20$$

$$GF \text{ (County 2, '60-'70)} = \frac{40,000}{30,000} = 1.33$$

$$GF \text{ (Regional Total, '60-'70)} = \frac{100,000}{80,000} = 1.25$$

$$GF \text{ (Regional Total, '70-'80)} = \frac{115,000}{100,000} = 1.15$$

These can be converted to average annual growth factors (AGF) using the assumption that growth in each period follows the compound interest rule so that

$$AGF = (GF(\text{for 10 yr}))^{1/10}$$

The corresponding average annual growth factors are then:

$$AGF \text{ (County 1, '60-'70)} = (1.20)^{1/10} = 1.018 \text{ or } 1.8\%/\text{year}$$

$$AGF \text{ (County 2, '60-'70)} = (1.33)^{1/10} = 1.029 \text{ or } 2.9\%/\text{year}$$

$$AGF \text{ (Region, '60-'70)} = (1.25)^{1/10} = 1.023 \text{ or } 2.3\%/\text{year}$$

$$AGF \text{ (Region, '70-'80)} = (1.15)^{1/10} = 1.014 \text{ or } 1.4\%/\text{year}$$

Now we must complete the County shifts (CS) in the historical period 1960-1970.

$$CS \text{ (County 1)} = \frac{AGF \text{ (County 1, '60-'70)}}{AGF \text{ (Region, '60-'70)}} = \frac{1.018}{1.023} = 0.9951$$

$$CS \text{ (County 2)} = \frac{AGF \text{ (County 2, '60-'70)}}{AGF \text{ (Region, '60-'70)}} = \frac{1.029}{1.023} = 1.0059$$

Using the average annual growth factor for the Regional total in the forecast period '70-'80 and the County shifts, we now compute the average annual growth factors for the Counties in the forecast period.

$$AGF \text{ (County 1, '70-'80)} = AGF \text{ (Region, '70-'80)} \times CS \text{ (County 1)} \\ = 1.014 \times 0.9951 = 1.0090 \text{ or } 0.9\%/year$$

$$AGF \text{ (County 2, '70-'80)} = AGF \text{ (Region, '70-'80)} \times CS \text{ (County 2)} \\ = 1.014 \times 1.0059 = 1.0200 \text{ or } 2.0\%/year$$

Now we convert the average annual growth factors for the counties to 10-year growth factors:

$$GF \text{ (County 1, '70-'80)} = (AGF \text{ (County 1, '70-'80)})^{10} = 1.0937$$

$$GF \text{ (County 2, '70-'80)} = (AGF \text{ (County 2, '70-'80)}) = 1.2190$$

These growth factors are applied to the 1970 figures to get our first estimate of County employment in 1980.

$$\text{Employment (County, '80)} = \text{Employment (County, '70)} \times \text{Growth Factor ('70-'80)}$$

$$\text{Employment (County 1, '80)} = 60,000 \times 1.0937 = 65,622$$

$$\text{Employment (County 2, '80)} = 40,000 \times 1.2190 = 48,760$$

$$\text{Therefore, the first estimate of Regional} \\ \text{Total employment} = 65,622 + 48,760 = 114,382.$$

Since we require the forecasts to equal the Regional Total forecast of 115,000 we must normalize the first estimate to achieve a final estimate by multiplying by the ration $\frac{115,000}{114,382} = 1.0054$.

Therefore, in 1980 the following forecast results:

County 1	65,977
County 2	49,023
<u>Regional Total</u>	<u>115,000</u>

U.C. BERKELEY LIBRARIES



C124901588

